brother

User's Guide

Safety and Legal

Basic User's Guide

Advanced User's Guide

Safety and Legal

(HL-4140CN / 4150CDN / 4570CDW(T) / DCP-9055CDN / MFC-9460CDN / 9465CDN)

Please read this booklet before attempting to operate the product, or before attempting any maintenance. Failure to follow these instructions may result in an increased risk of fire, electrical shock, burns or suffocation.

Symbols and conventions used in the documentation

The following symbols and conventions are used throughout the documentation.

Bold	Bold typeface identifies specific buttons on the product's control panel, on the computer screen.
Italics	Italicized typeface emphasizes an important point or refers you to a related topic.
`Courier New`	Text in the Courier New font identifies messages on the LCD of the product.

⚠ WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injuries.

⚠ CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injuries.

❗ IMPORTANT

IMPORTANT indicates a potentially hazardous situation which, if not avoided, may result in damage to property or loss of product functionality.

Notes tell you how you should respond to a situation that may arise or give tips about how the operation works with other features.

Electrical Hazard icons alert you to possible electrical shock.

Improper Setup icons alert you to devices and operations that are not compatible with the product.

Hot Surface icons warn you not to touch product parts that are hot.

Follow all warnings and instructions marked on the product.

Note

The illustrations in this guide show the HL-4150CDN and MFC-9460CDN.

Version A

UK/IRE

Compilation and Publication

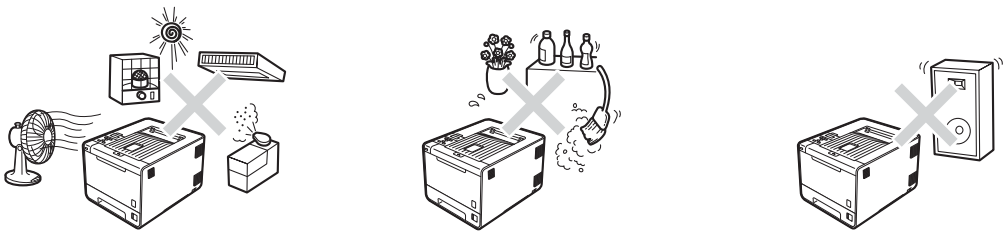
Under the supervision of Brother Industries, Ltd., this manual has been compiled and published, covering the latest product descriptions and specifications.

The contents of this manual and the specifications of this product are subject to change without notice.

Brother reserves the right to make changes without notice in the specifications and materials contained herein and shall not be responsible for any damages (including consequential) caused by reliance on the materials presented, including but not limited to typographical and other errors relating to the publication.

Choosing a location

Put your product on a flat, level, stable surface that is free of vibration and shocks, such as a desk. Put the product near a telephone socket and a standard grounded electrical socket. Choose a location where the temperature remains between 10°C and 32.5°C and the humidity is between 20% to 80% (without condensation).



⚠ WARNING

DO NOT expose the product to direct sunlight, excessive heat, open flames, salty or corrosive gasses, moisture or dust.

DO NOT place the product near heaters, air conditioners, desk fan, refrigerators, water or chemicals.

⚠ CAUTION

Avoid placing your product in a high-traffic area.

DO NOT put the product where the ventilation holes of the product are blocked. Keep a gap of roughly 100 mm between the ventilation holes and the wall.

DO NOT connect your product to electrical sockets controlled by wall switches or automatic timers, or to the same circuit as large appliances that might disrupt the power supply.

Disruption of power can delete information from the product's memory.

Avoid interference sources, such as other cordless telephone systems or speakers.

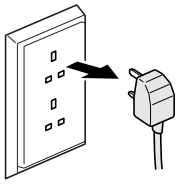
Make sure cables leading to the product do not constitute a trip hazard.

DO NOT eat Silica Pack. Discard immediately.

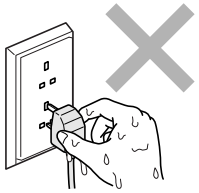
To use the product safely

⚠ WARNING

There are high voltage electrodes inside the product. Before you clean the inside of the product, make sure you have unplugged the telephone line cord first (MFC only) and then the power cord from the electrical socket. Doing this will prevent an electrical shock.



DO NOT handle the plug with wet hands. Doing this might cause an electrical shock.

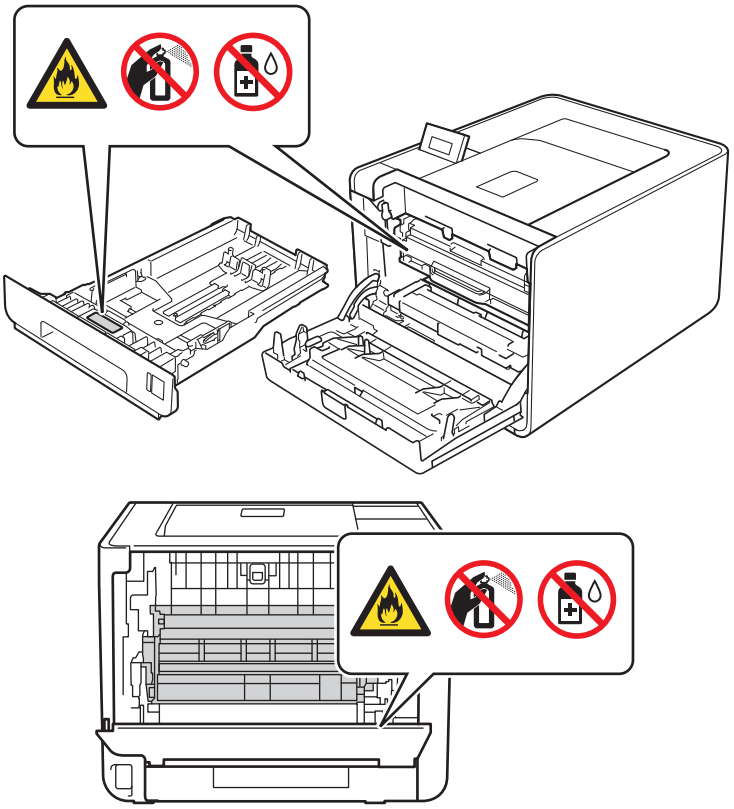


Always make sure the plug is fully inserted.

This product must be installed near an electrical socket that is easily accessible. In case of an emergency, you must unplug the power cord from the electrical socket to shut off the power completely.

Plastic bags are used in the packing of your product and drum unit. Plastic bags are not toys. To avoid the danger of suffocation, keep these bags away from babies and children and dispose of them properly.

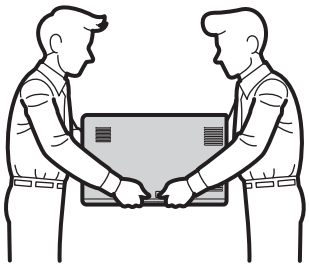
DO NOT use flammable substances near the product. DO NOT use any type of spray to clean the inside or outside of the product. Doing this may cause a fire or electrical shock. See *Routine Maintenance* in the *User's Guide*/*Basic User's Guide* for how to clean the product.



DO NOT use a vacuum cleaner to clean up scattered toner. Doing this might cause the toner dust to ignite inside the vacuum cleaner, potentially starting a fire. Please carefully clean the toner dust with a dry, lint-free soft cloth and dispose of it according to local regulations.

Be careful not to inhale toner.

- This product is heavy and weighs more than 21.0 kg (46.3 lb) for Printer, and more than 26.5 kg (58.4 lb) for MFC/DCP. To prevent injuries when moving or lifting this product, make sure to use at least two people. Be careful not to pinch your fingers when you set the product back down.
- If you use a Lower Tray, carry it separately from your product.



(MFC only)

Use caution when installing or modifying telephone lines. Never touch telephone wires or terminals that are not insulated unless the telephone line has been unplugged at the wall socket. Never install telephone wiring during a lightning storm. Never install a telephone wall socket in a wet location.

(MFC only)

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electrical shock and injury to people, including the following:

1 DO NOT use this product near water, for example, near a bath tub, wash bowl, kitchen sink or washing product, in a wet basement or near a swimming pool.

2 Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

3 DO NOT use this product to report a gas leak in the vicinity of the leak.

4 We DO NOT advise using an extension lead.

5 Never install telephone wiring during a lightning storm. Never install a telephone wall socket in a wet location.

6 If any cables become damaged, disconnect your product, and contact your Brother dealer.

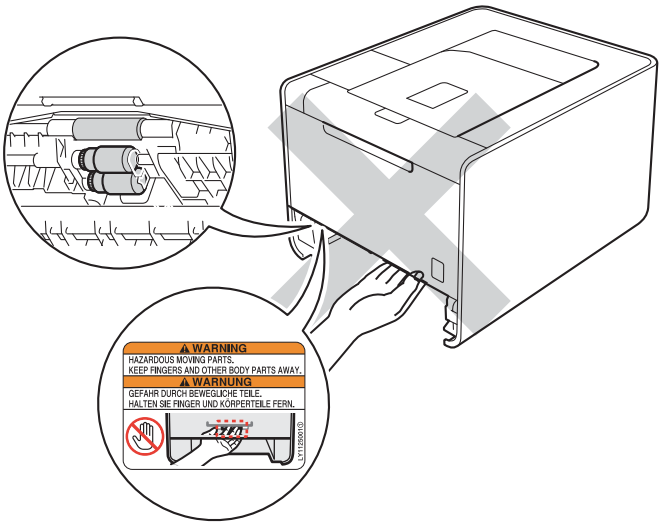
7 DO NOT place any objects on the product, or obstruct the air vents.

8 This product should be connected to an adjacent grounded AC power source within the range indicated on the rating label. DO NOT connect it to a DC power source or inverter. If you are not sure, contact a qualified electrician.

SAVE THESE INSTRUCTIONS

⚠ WARNING

DO NOT touch the shaded parts shown in the illustration. These rollers may be rotating at high speed.

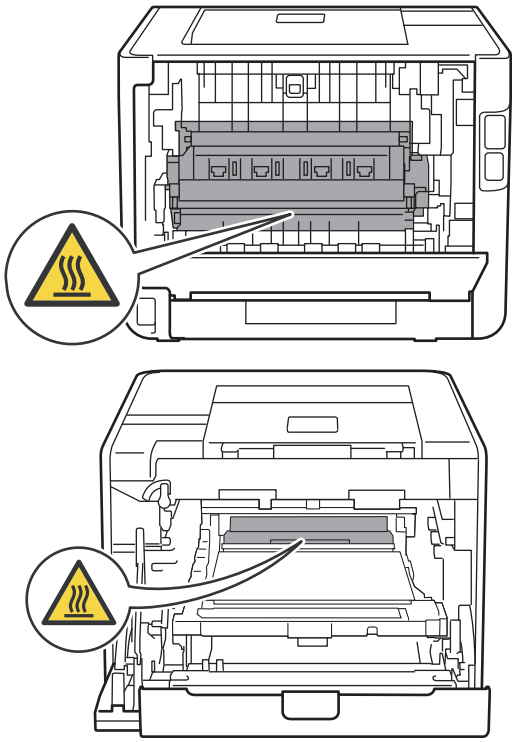


Languages on the label may vary depending on your country.

⚠ CAUTION

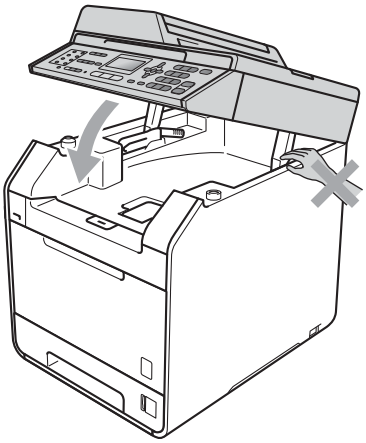
HOT SURFACE

After you have just used the product, some internal parts of the product will be extremely hot. Wait for the product to cool down before you touch the internal parts of the product.



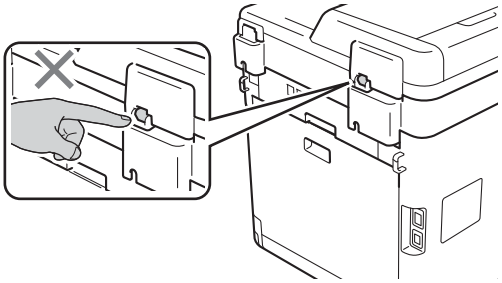
(MFC and DCP only)

Some areas of the product can cause injury if covers (shaded) are closed with force. Take care when placing your hand in the areas shown in the illustrations.



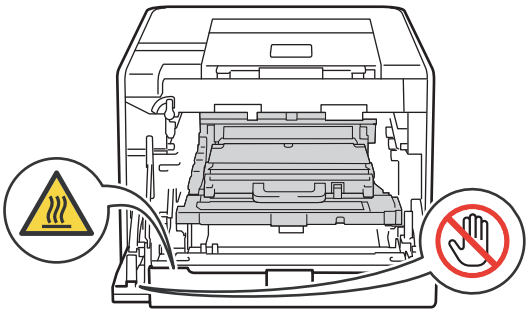
(MFC and DCP only)

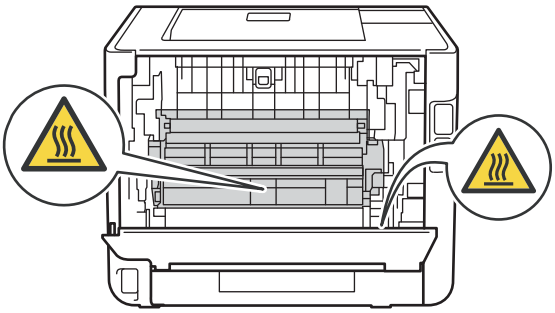
To prevent injuries, be careful not to put your fingers in the areas shown in the illustrations.



IMPORTANT

DO NOT remove or damage any of the caution or warning labels inside the product.





Important safety instructions

1 Read all of these instructions.

2 Save them for later reference.

3 Follow all warnings and instructions marked on the product.

4 Unplug this product from the wall socket before cleaning inside of the product. DO NOT use liquid or aerosol cleaners. Use a dry, lint-free soft cloth for cleaning.

5 DO NOT place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.

6 Slots and openings in the casing at the back or bottom are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heater. This product should never be placed in a built-in installation unless adequate ventilation is provided.

7 This product should be connected to an AC power source within the range indicated on the rating label. DO NOT connect it to a DC power source or inverter. If you are not sure, contact a qualified electrician.

8 This product is equipped with a 3-wire grounded plug. This plug will only fit into a grounded power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, call your electrician to replace your obsolete outlet. DO NOT defeat the purpose of the grounded plug.

9 Use only the power cord supplied with this product.

10 DO NOT allow anything to rest on the power cord. DO NOT place this product where people can walk on the cord.

11 Use the product in a well-ventilated area.

12 The power cord, including extensions, should be no longer than 5 metres (16.5 feet).

DO NOT share the same power circuit with other high powered appliances, such as an air conditioner, copier, shredder, and so on.

13 DO NOT place anything in front of the product that will block received faxes or printed pages. DO NOT place anything in the path of received faxes or printed pages.

14 Wait until pages have exited the product before picking them up.

15 Unplug this product from the power socket and refer all servicing to Brother Authorized Service Personnel under the following conditions:

- When the power cord is damaged or frayed.
- If liquid has been spilled into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions. Incorrect adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.

- If the product has been dropped or the casing has been damaged.
- If the product exhibits a distinct change in performance, indicating a need for service.

16 To protect your product against power surges, we recommend the use of a power protection device (Surge Protector).

17 To reduce the risk of fire, electric shock and injury to people, note the following:

- DO NOT use this product near appliances that use water, a swimming pool or in a wet basement.
- DO NOT use the product during an electrical storm (there is the remote possibility of an electrical shock) or to report a gas leak (MFC only) in the vicinity of the leak.
- DO NOT use this product in the vicinity of a gas leak.

Regulation

Approval Information (MFC only)

THIS EQUIPMENT IS DESIGNED TO WORK WITH A TWO WIRE ANALOGUE PSTN LINE FITTED WITH THE APPROPRIATE CONNECTOR.

Brother advises that this product may not function correctly in a country other than where it was originally purchased, and does not offer any warranty in the event that this product is used on public telecommunication lines in another country.

Declaration of Conformity (Europe only) (HL-4570CDW / HL-4570CDWT / MFC-9460CDN / MFC-9465CDN only)

We, Brother Industries, Ltd.

15-1, Naeshiro-cho, Mizuho-ku, Nagoya 467-8561 Japan

declare that this product is in compliance with the essential requirements of Directives 1999/5/EC and 2005/32/EC.

The Declaration of Conformity (DoC) is on our Website.

Please go to http://solutions.brother.com/.

→ choose region (eg. Europe)

→ choose country

→ choose your model

→ choose “Manuals”

→ choose Declaration of Conformity (Select Language when required.)

Declaration of Conformity (Europe only) (HL-4140CN / HL-4150CDN / DCP-9055CDN only)

We, Brother Industries, Ltd.

15-1, Naeshiro-cho, Mizuho-ku, Nagoya 467-8561 Japan

declare that this product is in compliance with the essential requirements of Directives 2004/108/EC, 2006/95/EC and 2005/32/EC.

The Declaration of Conformity (DoC) is on our Website.

Please go to http://solutions.brother.com/.

→ choose region (eg. Europe)

→ choose country

→ choose your model

→ choose “Manuals”

→ choose Declaration of Conformity (Select Language when required.)

IEC60825-1:2007 Specification (For 220-240V Models Only)

This product is a Class 1 laser product as defined in IEC60825-1:2007 specifications. The label shown below is attached in countries where required.

This product has a Class 3B Laser Diode which emits invisible laser radiation in the Scanner Unit. The Scanner Unit should not be opened under any circumstances.

Internal Laser radiation

Wave length: 770 - 800 nm

Output: 20 mW max.

Laser Class: Class 3B

⚠ WARNING

Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

Disconnect device

This product must be installed near an electrical socket that is easily accessible. In case of emergencies, you must disconnect the power cord from the electrical socket to shut off power completely.

Wiring information (U.K. only)

If you need to replace the plug fuse, fit a fuse that is approved by ASTA to BS1362 with the same rating as the original fuse.

Always replace the fuse cover. Never use a plug that does not have a cover. If in any doubt, call a qualified electrician.

Warning -This product must be earthed.

The wires in the mains lead are coloured in line with the following code:

- Green and Yellow: Earth
- Blue: Neutral
- Brown: Live

LAN connection (Network models only)

⚠ CAUTION

DO NOT connect this product to a LAN connection that is subject to over-voltages.

Radio interference

This product complies with EN55022 (CISPR Publication 22)/Class B.

EU Directive 2002/96/EC and EN50419

European
Union only

This equipment is marked with the above recycling symbol. It means that at the end of the life of the equipment you must dispose of it separately at an appropriate collection point and not place it in the normal domestic unsorted waste stream. This will benefit the environment for all. (European Union only)

International ENERGY STAR® Qualification Statement (except HL-4140CN)

The purpose of the International ENERGY STAR® Program is to promote the development and popularization of energy-efficient office equipment.

As an ENERGY STAR® Partner, Brother Industries, Ltd. has determined that this product meets the ENERGY STAR® specifications for energy efficiency.

Trademarks

The Brother logo is a registered trademark of Brother Industries, Ltd.

Brother is a registered trademark of Brother Industries, Ltd.

Microsoft, Windows, Windows Server and Internet Explorer are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Windows Vista is either a registered trademark or a trademark of Microsoft Corporation in the United States and other countries.

Apple, Macintosh, Safari and TrueType are trademarks of Apple Inc., registered in the United States and other countries.

Linux is the registered trademark of Linus Torvalds in the U.S. and other countries.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Intel, Intel Core and Pentium are trademarks of Intel Corporation in the U.S. and other countries.

AMD is a trademark of Advanced Micro Devices, Inc.

Adobe, Flash, Illustrator, Photoshop, PostScript and PostScript 3 are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Wi-Fi and Wi-Fi Alliance are registered trademarks of the Wi-Fi Alliance.

AOSS is a trademark of Buffalo Inc.

Nuance, the Nuance logo, PaperPort and ScanSoft are trademarks or registered trademarks of Nuance Communications, Inc. or its affiliates in the United States and/or other countries.

Any trade names and product names of companies appearing on Brother products, related documents and any other materials are all trademarks or registered trademarks of those respective companies.

Open Source Licensing Remarks

This product includes open-source software.

Please see Open Source Licensing Remarks and Copyright information on the supplied CD-ROM.

(For Windows®) “X:\\License.txt” (where X is your drive letter).

(For Macintosh) Double-click the CD-ROM icon on your desktop. Then double-click the **Utilities** icon. License.rtf will appear.

Copyright and License

©2010 Brother Industries, Ltd.

This product includes software developed by the following vendors:

©1983-1998 PACIFIC SOFTWORKS, INC.

©2010 Devicescape Software, Inc.

This product includes the “KASAGO TCP/IP” software developed by ZUKEN ELMIC, Inc.

Other Information (MFC only)

FlashFX® is a registered trademark of Datalight, Inc.

FlashFX® Copyright 1998-2010 Datalight, Inc.

U.S.Patent Office 5,860,082/6,260,156

FlashFX® Pro™ is a trademark of Datalight, Inc.

Datalight® is a registered trademark of Datalight, Inc.

Copyright 1989-2010 Datalight, Inc., All Rights Reserved

Unlawful use of copying equipment (MFC and DCP only)

It is an offence to make reproductions of certain items or documents with the intent to commit fraud. The following is a non-exhaustive list of documents which it may be unlawful to produce copies of. We suggest you check with your legal adviser and/or the relevant legal authorities if in doubt about a particular item or document:

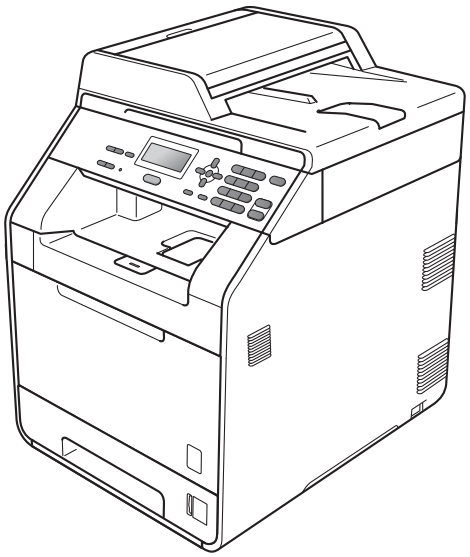
- Currency
- Bonds or other certificates of indebtedness
- Certificates of Deposit
- Armed forces service or draft papers
- Passports
- Postage stamps (cancelled or uncancelled)
- Immigration papers
- Welfare documents
- Cheques or drafts drawn by governmental agencies
- Identifying badges or insignias

In addition, driving licenses and/or Certificates of Title to motor vehicles may not be copied under certain national laws.

Copyrighted works cannot be copied lawfully, subject to the “fair dealing” exception relating to sections of a copyrighted work. Multiple copies would indicate improper use. Works of art should be considered the equivalent of copyrighted works.

BASIC USER'S GUIDE

DCP-9055CDN



Not all models are available in all countries.

Version 0

UK/IRE

If you need to call Customer Service

Please complete the following information for future reference:

Model Number: DCP-9055CDN

Serial Number: [1] _____

Date of Purchase: _____

Place of Purchase: _____

[1] The serial number is on the back of the unit. Retain this User's Guide with your sales receipt as a permanent record of your purchase, in the event of theft, fire or warranty service.

Register your product on-line at

http://www.brother.com/registration/

© 2010 Brother Industries, Ltd.

User's Guides and where do I find it?

Which manual?	What's in it?	Where is it?
Safety and Legal	Please read the Safety Instructions before you set up your machine.	Printed / In the box
Quick Setup Guide	Read this Guide first. Follow the instructions for setting up your machine and installing the drivers and software for the operating system and connection type you are using.	Printed / In the box
Basic User's Guide	Learn the basic Copy and Scan operations and how to replace consumables. See troubleshooting tips.	PDF file / Documentation CD-ROM / In the box
Advanced User's Guide	Learn more advanced operations: Copy, security features and performing routine maintenance.	PDF file / Documentation CD-ROM / In the box
Software User's Guide	Follow these instructions for Printing, Scanning, Network Scanning and using the Brother ControlCenter utility.	PDF file / Documentation CD-ROM / In the box
Network Glossary	This Guide provides basic information about advanced network features of Brother machines along with general networking and common terms.	PDF file / Documentation CD-ROM / In the box
Network User's Guide	This Guide provides useful information of wired network settings and security settings using Brother machine. You can also find supported protocol information for your machine and the detailed troubleshooting tips.	PDF file / Documentation CD-ROM / In the box

Table of Contents
(BASIC USER'S GUIDE)

1 General information 1

Using the documentation 1
Symbols and conventions used in the documentation 1
Accessing the Advanced User's Guide, Software User's Guide and Network User's Guide 2
Viewing Documentation 2
Accessing Brother Support (Windows®) 4
Accessing Brother Support (Macintosh) 4
Control panel overview 6
Data LED indications 8
Volume settings 9
Beeper volume 9

2 Loading paper 10

Loading paper and print media 10
Loading paper in the standard paper tray 10
Loading paper in the multi-purpose tray (MP tray) 12
Scannable area 17
Unprintable area when printing from a computer 17
Paper settings 18
Paper Type 18
Paper Size 18
Tray Use in copy mode 19
Tray Use in print mode 19
Acceptable paper and other print media 20
Recommended paper and print media 20
Type and size of paper 20
Handling and using special paper 22

3 Loading documents 25

How to load documents 25
Using the automatic document feeder (ADF) 25
Using the scanner glass 26

4 Making copies 27

How to copy 27
Stop copying 27
Copy settings 27

5 How to print from a computer 28

Printing a document 28

6 How to scan to a computer 29

Scanning a document 29
Scanning using the scan key 29
Scanning using a scanner driver 30

A Routine maintenance 31

Replacing the consumable items 31
Replacing a Toner cartridge 35
Replacing the drum unit 41
Replacing the belt unit 48
Replacing the waste toner box 53
Cleaning and Checking the machine 60
Cleaning the outside of the machine 60
Cleaning the scanner glass 61
Cleaning the laser scanner windows 62
Cleaning the corona wires 66
Cleaning the drum unit 70
Cleaning the paper pick-up rollers 76
Calibration 77
Auto Registration 78
Manual Registration 78
Frequency (Colour Correction) 79

B Troubleshooting 80

Error and maintenance messages 80
Document is jammed in the top of the ADF unit 86
Document is jammed under the document cover 86
Removing small documents jammed in the ADF 87
Document is jammed at the output tray 87
Paper is jammed in the MP tray 88
Paper is jammed in the Paper Tray 1 or Tray 2 89
Paper is jammed at the back of the machine 90
Paper is jammed inside the machine 92
Paper is jammed underneath paper tray 1 96
Troubleshooting 97
If you are having difficulty with your machine 97
Improving the print quality 101
Machine Information 108
Checking the Serial Number 108
Reset functions 108
How to reset the machine 108

C Menu and features 109

On-screen programming 109
How to access the menu mode 109
Menu table 110
Entering text 120

D Specifications 122

General 122
Document Size 124
Print media 125
Copy 127
Scanner 128
Printer 129
Interfaces 130
Computer requirements 131
Consumable items 133
Network (LAN) 134

E Index 135

Table of Contents
(ADVANCED USER'S GUIDE)

The Advanced User's Guide explains the following features and operations. You can view the Advanced User's Guide on the Documentation CD-ROM.

1 General Setup

Memory storage

Automatic daylight savings time

Ecology features

LCD Contrast

User Settings List

Network Configuration List

2 Security features

Secure Function Lock 2.0

3 Making copies

Copy settings

Duplex (2-sided) copying

A Routine maintenance

Cleaning and checking the machine

Replacing periodic maintenance parts

Packing and shipping the machine

B Options

Optional paper tray (LT-300CL)

Memory board

C Glossary

D Index

1 General information

Using the documentation

Thank you for buying a Brother machine! Reading the documentation will help you make the most of your machine.

Symbols and conventions used in the documentation

The following symbols and conventions are used throughout the documentation.

Bold	Bold style identifies keys on the machine control panel or computer screen.
Italics	Italicized style emphasizes an important point or refers you to a related topic.
`Courier New`	Courier New font identifies the messages shown on the LCD of the machine.

⚠ WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injuries.

⚠ CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injuries.

❗ IMPORTANT

IMPORTANT indicates a potentially hazardous situation which, if not avoided, may result in damage to property or loss of product functionality.

Electrical Hazard icons alert you to a possible electrical shock.

Hot Surface icons warn you not to touch machine parts that are hot.

Notes tell you how you should respond to a situation that may arise or give tips about how the current operation works with other features.

Accessing the Advanced User's Guide, Software User's Guide and Network User's Guide

This Basic User's Guide does not contain all the information about the machine such as how to use the advanced features Copy, Printer, Scanner and Network. When you are ready to learn detailed information about these operations, read the **Advanced User's Guide**, **Software User's Guide**, **Network Glossary** and **Network User's Guide** that are on the Documentation CD-ROM.

Viewing Documentation

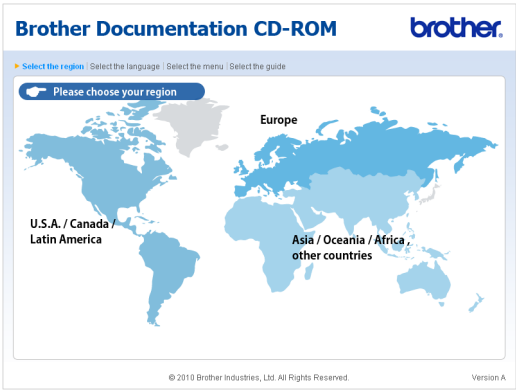
1. Turn on your computer. Insert the Documentation CD-ROM into your CD-ROM drive.

Note

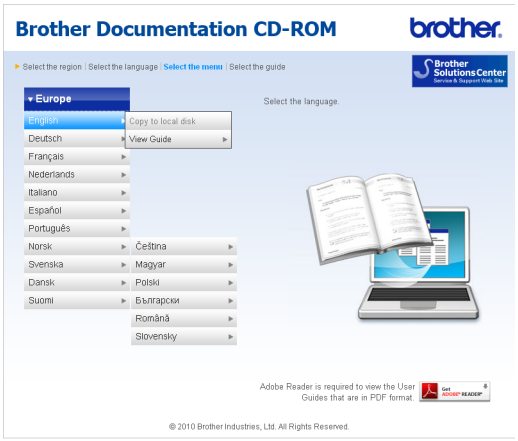
(Windows® users) If the screen does not appear automatically, go to **My Computer** (**Computer**), double-click the CD-ROM icon, and then double-click **index.html**.

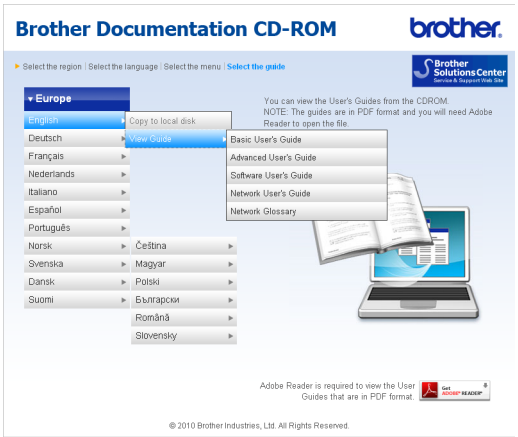
2. (Macintosh users) Double-click the Documentation CD-ROM icon, and then double-click **index.html**.

3. Click your country.


Brother Documentation CD-ROM
brother
Please choose your region
Europe
U.S.A. / Canada / Latin America
Asia / Oceania / Africa / other countries
© 2010 Brother Industries, Ltd. All Rights Reserved.
Version A

4. Point to your language, point to **View Guide**, and then click the guide you want to read.





Note

- (Windows® users only) Your web browser may display a yellow bar at the top of the page that contains a security warning about Active X controls. For the page to display correctly you must click on the bar, click **Allow Blocked Content**, then click **Yes** in the Security Warning dialog box.
- (Windows® users only) [1] For faster access, you can copy all user documentation in PDF format to a local folder on your computer. Point to your language, then click **Copy to local disk**.

[1] Microsoft® Internet Explorer® 6.0 or greater.

How to find Scanning instructions

There are several ways you can scan documents. You can find the instructions as follows:

Software User's Guide

- *Scanning*
- *ControlCenter*
- *Network Scanning*

ScanSoft™ PaperPort™12SE with OCR How-to-Guides

(Windows®)

- The complete ScanSoft™ PaperPort™12SE with OCR How-to-Guides can be viewed from the Help selection in the ScanSoft™ PaperPort™12SE application.

Presto! PageManager User's Guide (Macintosh)

Note

Presto! PageManager must be downloaded and installed before use. See *Accessing Brother Support (Macintosh)* on page 4 for further instructions.

- The complete Presto! PageManager User's Guide can be viewed from the Help selection in the Presto! PageManager application.

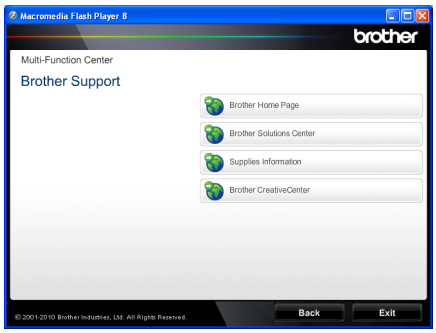
How to find Network setup instructions

Your machine can be connected to a wired network. You can find basic setup instructions in the *Quick Setup Guide*. For more information about network setup please see the *Network User's Guide* on the Documentation CD-ROM.

Accessing Brother Support (Windows®)

You can find all the contacts you will need, such as Web support (Brother Solutions Center) on the Installation CD-ROM.

- Click **Brother Support** on the main menu. The following screen will appear:



- To access our website (http://www.brother.com/), click **Brother Home Page**.
- For the latest news and product support information (http://solutions.brother.com/), click **Brother Solutions Center**.
- To visit our website for original Brother Supplies (http://www.brother.com/original/), click **Supplies Information**.
- To access the Brother CreativeCenter (http://www.brother.com/creativecenter/) for FREE photo projects and printable downloads, click **Brother CreativeCenter**.
- To return to the main page, click **Back** or if you have finished, click **Exit**.

Accessing Brother Support (Macintosh)

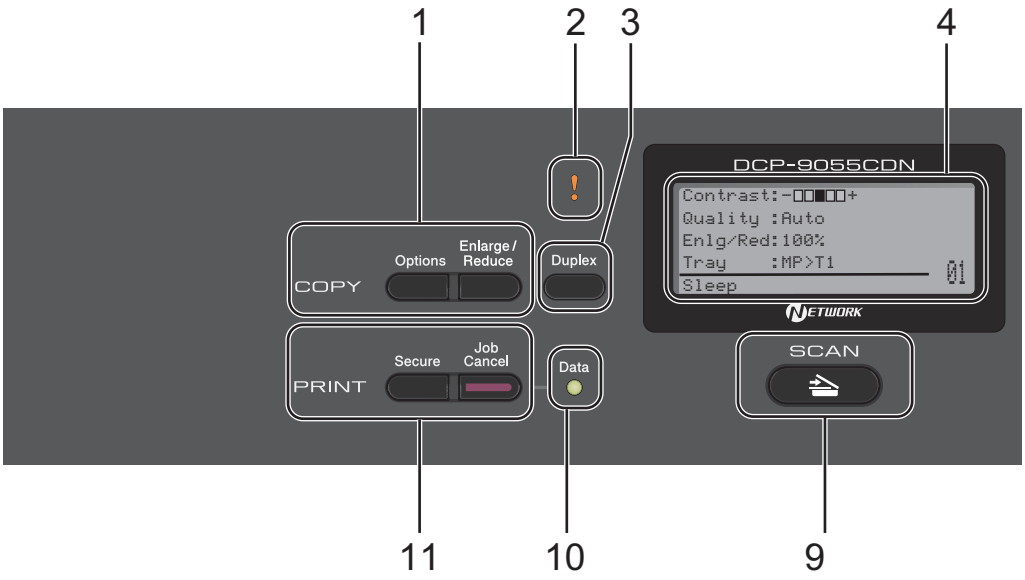
You can find all the contacts you will need, such as Web support (Brother Solutions Center) on the Installation CD-ROM.

- Double-click the **Brother Support** icon. The following screen will appear:

Brother Support
Brother Support
Presto! PageManager
Download the Presto! PageManager installer.
Access to the internet is required.
On-Line Registration
Brother offers easy on-line registration for your machine that will ensure your access to technical support and updates. To register just click the button and you will be linked to the Brother Product Registration Web Page.
Close

- To download and install Presto! PageManager, click **Presto! PageManager**.
- To register your machine from the Brother Product Register Page (http://www.brother.com/registration/), click **On-Line Registration**.
- For the latest news and product support information (http://solutions.brother.com/), click **BrotherSolutions Center**.
- To visit our website for original Brother Supplies (http://www.brother.com/original/), click **Supplies Information**.

Control panel overview



1 COPY keys:

Options

You can quickly and easily choose temporary settings for copying.

Enlarge/Reduce

Reduces or enlarges copies.

2 Error LED

Blinks in orange when the LCD displays an error or an important status message.

3 Duplex

You can choose Duplex to copy on both sides of the paper.

4 LCD

Displays messages to help you set up and use your machine.

5 Clear

Deletes entered data or lets you cancel the current setting.

Menu

Lets you access the Menu to program your settings in this machine.

OK

Lets you store your settings in the machine.

Selection keys:

◄ or ►

Press to scroll backwards or forwards through menu selections.

▲ or ▼

Press to scroll through the menus and options.

6 Numeric keys

Use these keys to enter text.

7 Stop/Exit

Stops an operation or exits from a menu.

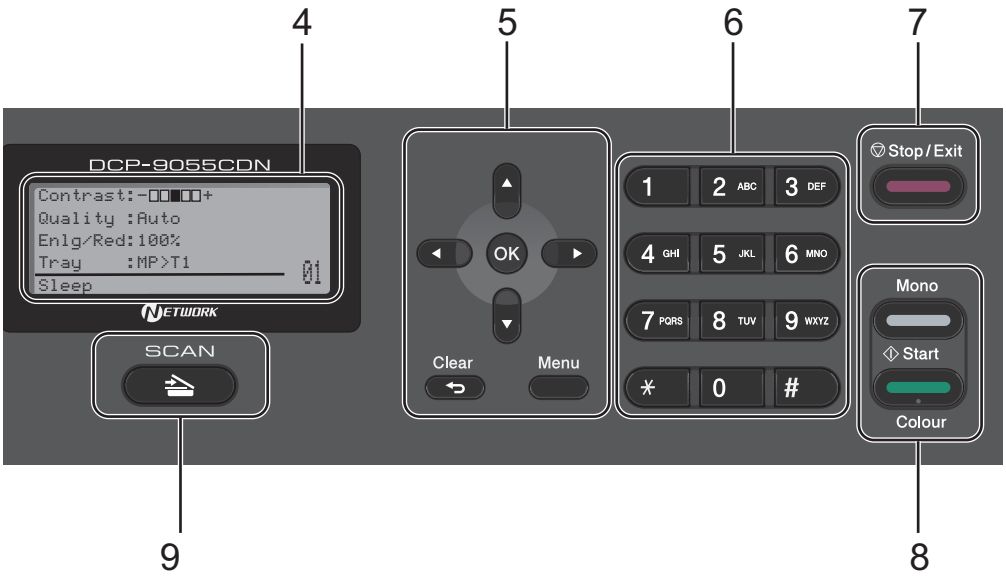
8 Start:

Colour

Lets you start making copies in full colour.

Mono

Lets you start making copies in black & white.



9 SCAN:

SCAN

Puts the machine in Scan mode.

10 Data LED

The LED will flash depending on the machine status.

11 PRINT keys:

Secure

You can print data saved in the memory when you enter your four-digit password. (For details about using the Secure key, see the *Software User's Guide*.)

When using Secure Function Lock, you can switch restricted users by holding down ◄ as you press **Secure**. (See *Secure Function Lock 2.0* in *Chapter 2* of the *Advanced User's Guide*.)

Job Cancel

Cancels a programmed print job and clears it from the machine's memory. To cancel multiple print jobs, hold down this key until the LCD shows `Job Cancel (All)`.

Data LED indications

The **Data** LED (light emitting diode) will flash depending on the machine's status.

LED	Machine Status	Description
○	Ready Mode	The machine is ready to print, in sleep mode, there is no print data, or the power switch is off.
☼ Green (blinking)	Receiving Data	The machine is either receiving data from the computer, processing data in memory, or printing data.
● Green	Data Remaining in Memory	Print data remains in the machine memory.

Volume settings

Beeper volume

When the beeper is on, the machine will beep when you press a key or make a mistake. You can choose a range of volume levels, from `High` to `Off`.

1. Press **Menu**, **1**, **2**.
2. Press ▲ or ▼ to choose `Off`, `Low`, `Med` or `High`.
   Press **OK**.
3. Press **Stop/Exit**.

2 Loading paper

Loading paper and print media

The machine can feed paper from the standard paper tray, optional lower tray or multi-purpose tray.

When you put paper into the paper tray, note the following:

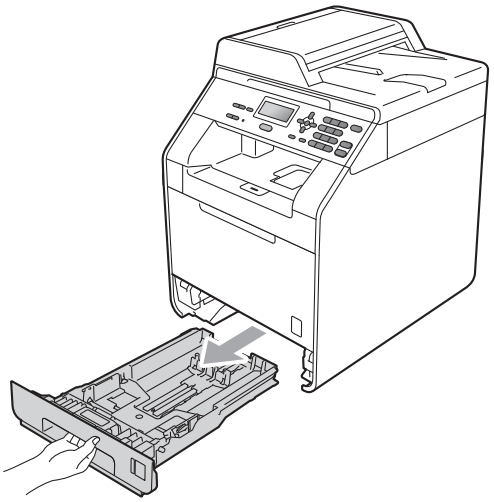
- If your application software supports paper size selection on the print menu, you can select it through the software. If your application software does not support it, you can set the paper size in the printer driver or by using the control panel buttons.

Loading paper in the standard paper tray

You can load up to 250 sheets for Tray 1 and 500 sheets for Tray 2. Paper can be loaded up to the maximum paper mark (▼▼▼) on the sliding paper with guide. (For recommended paper to use, see *Paper capacity of the paper trays* on page 21.)

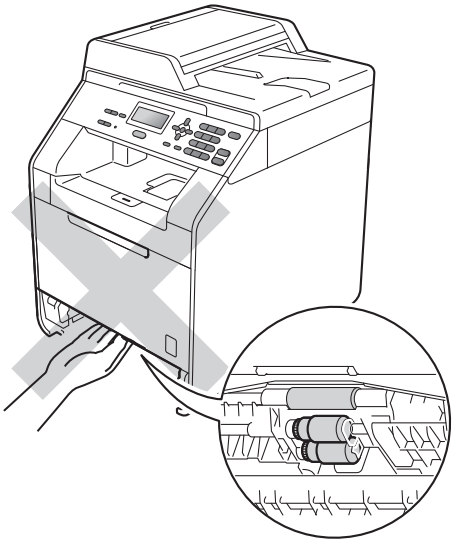
Printing on plain paper, thin paper or recycled paper from the standard paper tray

1. Pull the paper tray completely out of the machine.

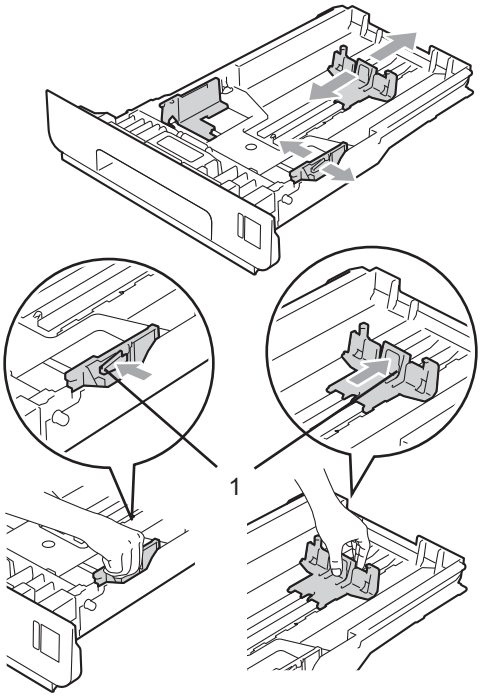


⚠ WARNING

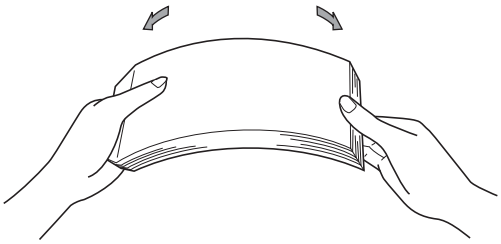
DO NOT touch the shaded parts shown in the illustration. These rollers may be rotating at high speed.



2 While pressing the green paper-guide release lever (1), slide the paper guides to fit the paper size you are loading in the tray. Make sure that the guides are firmly in the slots.



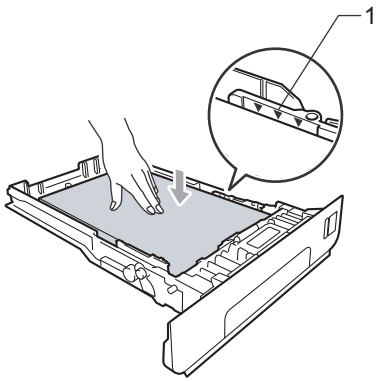
3 Fan the stack of paper well to avoid paper jams and misfeeds.



4 Put paper in the tray and make sure:

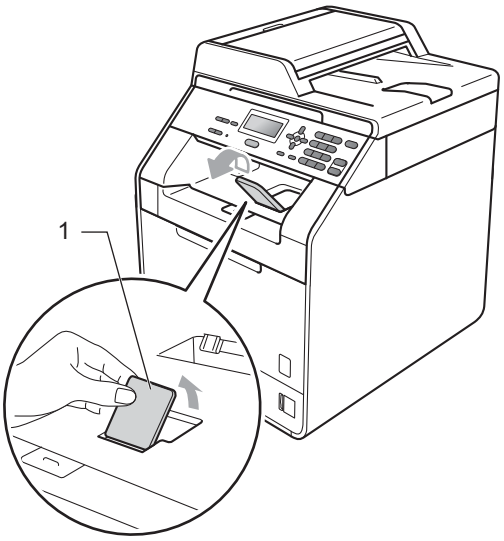
- The paper is below the maximum paper mark (▼▼▼) (1).

  Over filling the paper tray will cause paper jams.
- The side to be printed on must be face down.
- The paper guides touch the sides of the paper so it will feed properly.



5 Put the paper tray firmly back in the machine. Make sure that it is completely inserted into the machine.

6 Lift up the support flap (1) to prevent paper from sliding off the face-down output tray or remove each page as soon as it comes out of the machine.

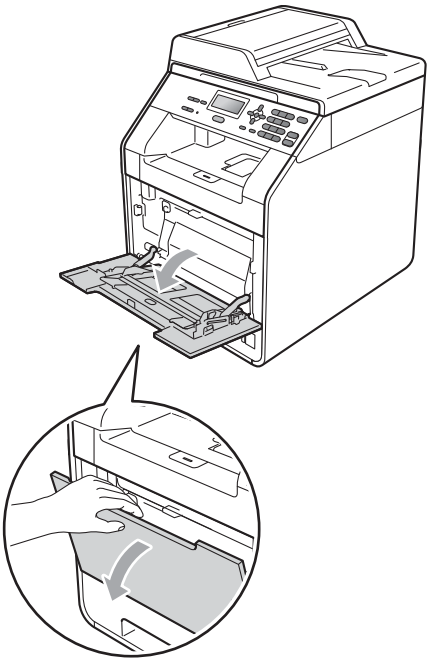


Loading paper in the multi-purpose tray (MP tray)

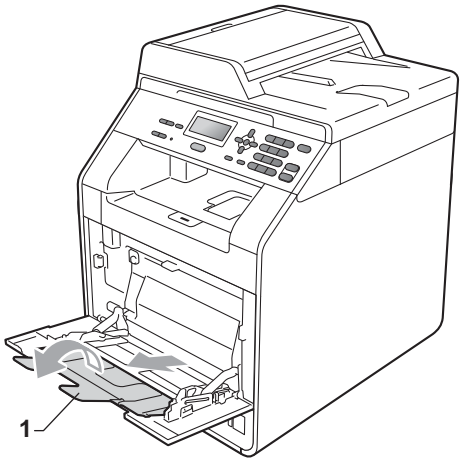
You can load up to 3 envelopes or special print media in the MP tray or up to 50 sheets of plain paper. Use this tray to print or copy on thick paper, bond paper, labels or envelopes. (For recommended paper to use, see *Paper capacity of the paper trays* on page 21.)

Printing on plain paper, bond paper, labels or glossy paper from the MP tray

1 Open the MP tray and lower it gently.

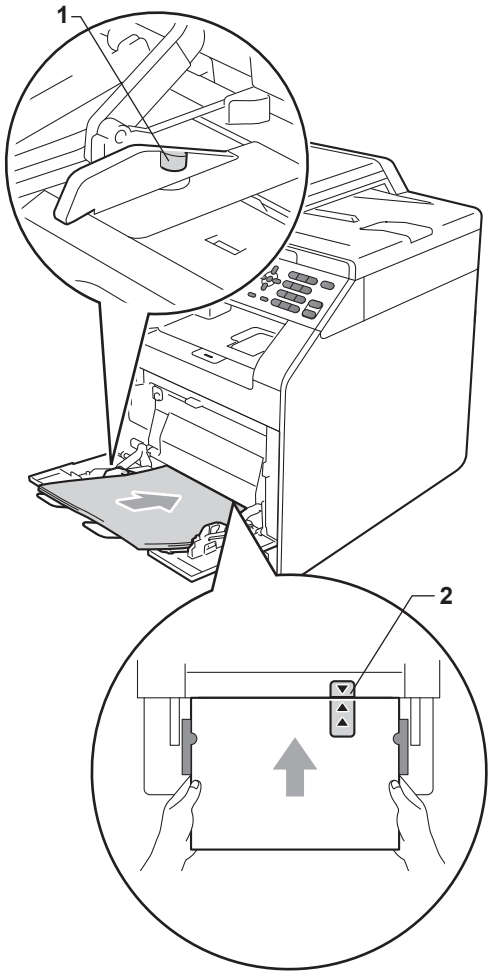


2 Pull out the MP tray support and unfold the flap (1).



3 Put paper in the MP tray and make sure:

- The paper stays under the maximum paper mark (1).
- The paper edge is positioned between the arrows (2).
- The side to be printed on must be face up with the leading edge (top of the paper) in first.



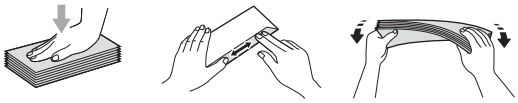
Note

When you are using glossy paper, put only one sheet at a time in the MP tray to avoid a paper jam.

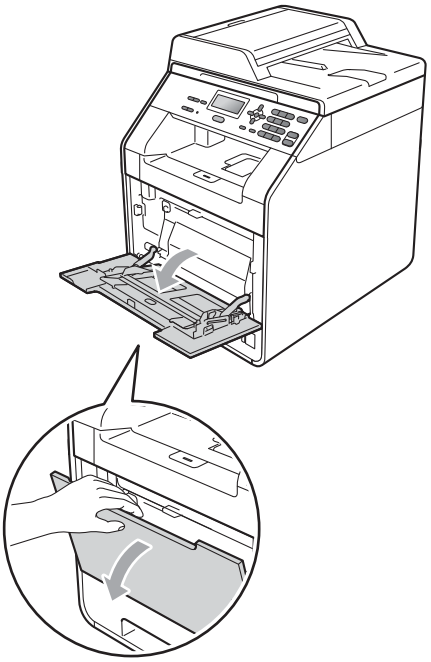
4 Lift up the support flap to prevent paper from sliding off the face-down output tray, or remove each page as soon as it comes out of the machine.

Printing on envelopes and thick paper from the MP tray

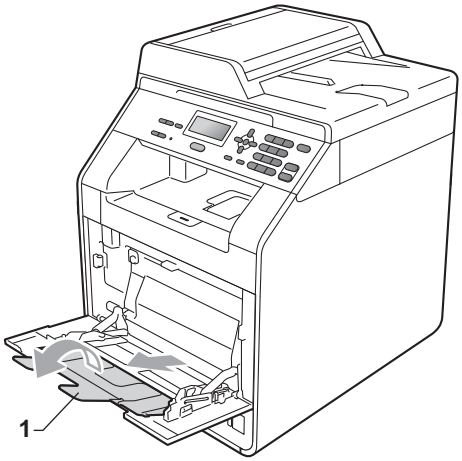
Before loading, press the corners and sides of the envelopes to make them as flat as possible.



1 Open the MP tray and lower it gently.



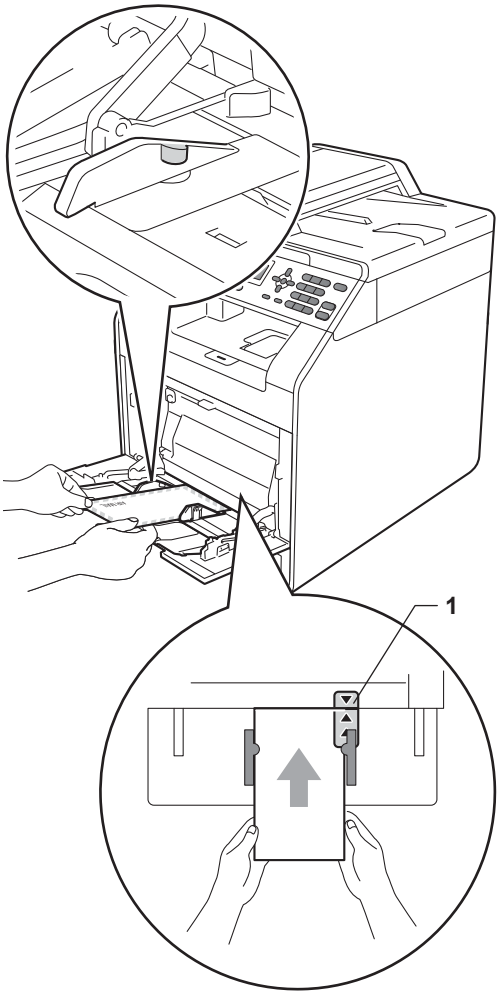
2 Pull out the MP tray support and unfold the flap (1).



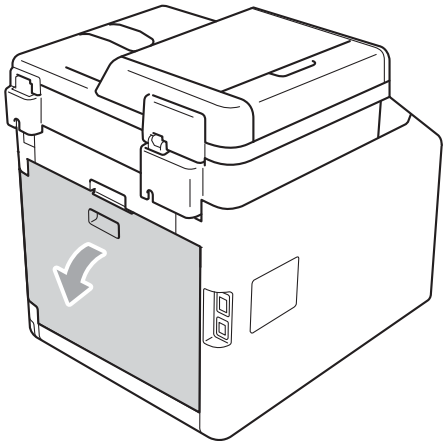
3 Lift up the support flap to prevent envelopes and thick sheets of paper from sliding off the face down output tray. If the support flap is closed you should remove each envelope as soon as it comes out of the machine.

4 Put up to 3 envelopes or up to 25 sheets of thick paper (163 g/m^2) in the MP tray. If you add more envelopes or paper it may cause a jam. Make sure:

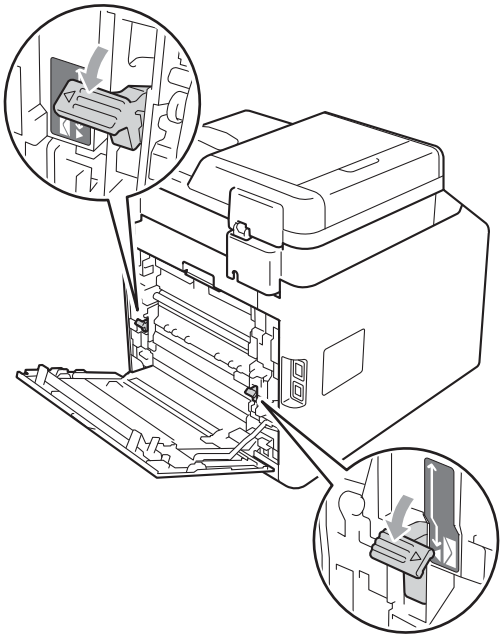
- The top of envelope edge is positioned between the arrows (1).
- The side to be printed on must be face up.



5 Open the back cover (Face-up output tray).



6 Pull down the two grey levers, one on the left-hand side and one on the right-hand side, to the envelope position as shown in the illustration below.



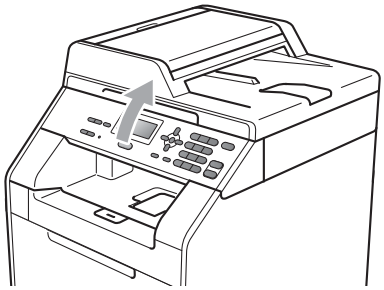
7 Close the back cover.

8 Send the print data to the machine.

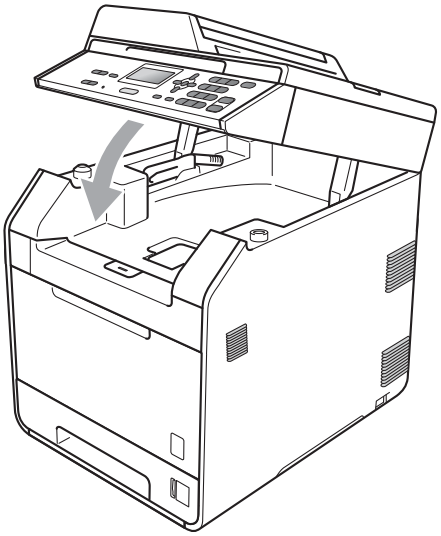
9 When you have finished printing, open the back cover and reset the two grey levers which are pulled down at step ❻ back to the original position.

Note

- Remove each printed envelope immediately to prevent a paper jam.
- If your thick paper curls during printing, put only one sheet at a time in the MP tray and open the back cover (back output tray) to let the printed pages exit to the back output tray.
- To easily remove a small printout from the output tray, lift up the scanner by using both hands as shown in the illustration.

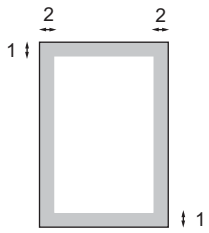


- You can still use the machine while the scanner is up. To close the scanner, push it down with both hands.



Scannable area

The figures below show unscannable areas for Copying.



Document Size	Top (1) Bottom (1)	Left (2) Right (2)
Letter	4 mm	3.96 mm
A4	4 mm	2 mm

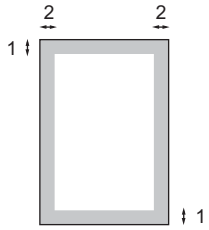
Note

This unscannable area shown above is for a single copy or a 1 in 1 copy using A4 size paper. The area that cannot be scanned will vary by paper size.

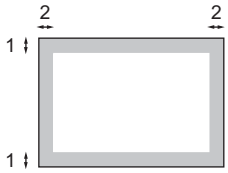
Unprintable area when printing from a computer

When using the printer driver the printable area is smaller than the paper size. The figures below show unprintable areas.

Portrait



Landscape



	Windows® printer driver and Macintosh printer driver BRScript printer driver for Windows® and Macintosh
1	4.23 mm
2	4.23 mm

Note

The area that cannot be printed on may vary depending on the paper size and the printer driver you are using. The unprintable area shown above is for A4 size paper.

Paper settings

Paper Type

Set up the machine for the type of paper you are using. This will give you the best print quality.

1. Do one of the following:
   - To set the paper type for the MP Tray press **Menu**, **1**, **1**, **1**, **1**.
   - To set the paper type for Tray#1 press **Menu**, **1**, **1**, **1**, **2**.
   - To set the paper type for Tray#2 [1] press **Menu**, **1**, **1**, **1**, **3** if you installed the optional tray.

   [1] Tray#2 appears only if the optional tray is installed.

2. Press ▲ or ▼ to choose Thin, Plain, Thick, Thicker, Recycled Paper or Glossy Paper.
   Press **OK**.

3. Press **Stop/Exit**.

Note

You can choose Glossy Paper for MP Tray.

Paper Size

You can use ten sizes of paper for printing copies: A4, Letter, Legal, Executive, A5, A5 L, A6, B5, B6 and Folio (8.5 in. × 13 in.).

When you change the size of paper in the tray, you will also need to change the setting for paper size at the same time so your machine can fit the document.

1. Do one of the following:
   - To set the paper size for the MP Tray press **Menu**, **1**, **1**, **2**, **1**.
   - To set the paper size for Tray#1 press **Menu**, **1**, **1**, **2**, **2**.
   - To set the paper size for Tray#2 [1] press **Menu**, **1**, **1**, **2**, **3** if you installed the optional tray.

   [1] Tray#2 appears only if the optional tray is installed.

2. Press ▲ or ▼ to choose A4, Letter, Legal, Executive, A5, A5 L, A6, B5, B6, Folio or Any.
   Press **OK**.

3. Press **Stop/Exit**.

Note

- The Any option appears only when you choose the MP tray.
- If you choose Any for the MP Tray Paper Size: You must choose MP Only for the Tray Use setting. You cannot use the Any Paper Size selection for the MP tray when making N in 1 copies. You must choose one of the other available Paper Size selections for the MP tray.
- A5 L and A6 size are not available for the Tray#2.

Tray Use in copy mode

You can change the priority tray that the machine will use for printing copies.

When you choose Tray#1 Only, MP Only or Tray#2 Only [1], the machine pulls the paper only from that tray. If the selected tray is out of paper, No Paper will appear on the LCD. Insert the paper in the empty tray.

To change the tray setting follow the instructions below:

1. Press **Menu**, **1**, **4**, **1**.
2. Press ▲ or ▼ to choose Tray#1 Only, Tray#2 Only [1], MP Only, MP>T1>T2 [1] or T1>T2 [1]>MP.
   Press **OK**.

   [1] Tray#2 Only or T2 appears only if the optional tray is installed.
3. Press **Stop/Exit**.

Note

- When loading the documents in the ADF and MP>T1>T2 or T1>T2>MP is selected, the machine looks for the tray with the most suitable paper and pulls paper from that tray. If no tray has suitable paper, the machine pulls paper from the higher priority tray.
- When using the scanner glass, your document is copied from the higher priority tray even if more suitable paper is in another paper tray.

Tray Use in print mode

You can change the default tray the machine will use for printing from your computer.

1. Press **Menu**, **1**, **4**, **2**.
2. Press ▲ or ▼ to choose Tray#1 Only, Tray#2 Only [1], MP Only, MP>T1>T2 [1] or T1>T2 [1]>MP.
   Press **OK**.

   [1] Tray#2 Only or T2 appears only if the optional tray is installed.
3. Press **Stop/Exit**.

Acceptable paper and other print media

Print quality may vary according to the type of paper you are using.

You can use the following types of print media: thin paper, plain paper, thick paper, bond paper, recycled paper, glossy paper, labels or envelopes.

For best results, follow the instructions below:

- DO NOT put different types of paper in the paper tray at the same time because it may cause paper jams or misfeeds.
- For correct printing, you must choose the same paper size from your software application as the paper in the tray.
- Avoid touching the printed surface of the paper immediately after printing.
- Before you buy a lot of paper, test a small quantity to make sure the paper is suitable.

Recommended paper and print media

Paper Type	Item
Plain paper	Xerox Premier TCF 80 g/m^2 Xerox Business 80 g/m^2
Recycled Paper	Xerox Recycled Supreme 80 g/m^2
Labels	Avery laser label L7163
Envelope	Antalis River series (DL)
Glossy Paper	International Paper Rey Color Laser Gloss 140 g/m^2 A4

Type and size of paper

The machine feeds paper from the installed standard paper tray, multi-purpose tray or optional lower tray.

The name for the paper trays in the printer driver and this Guide are as follows:

Tray and optional unit	Name
Standard paper tray	Tray 1
Multi-purpose tray	MP Tray
Optional lower tray	Tray 2

Paper capacity of the paper trays

	Paper size	Paper types	No. of sheets
Paper Tray (Tray 1)	A4, Letter, Legal, B5, Executive, A5, A5 (Long Edge), A6, B6, Folio [1]	Plain paper, Thin paper and Recycled paper	up to 250 [80 g/m^2]
Multi-purpose Tray (MP Tray)	Width: 69.8 to 216 mm Length: 116 to 406.4 mm	Plain paper, Thin paper, Thick paper, Thicker paper, Bond paper, Recycled paper, Envelopes, Labels and Glossy paper	50 sheets [80 g/m^2] 3 Envelopes 1 Glossy paper
Optional lower Tray (Tray 2)	A4, Letter, Legal, B5, Executive, A5, B6, Folio [1]	Plain paper, Thin paper and Recycled paper	up to 500 [80 g/m^2]

[1] Folio size is 215.9 mm x 330.2 mm

Recommended paper specifications

The following paper specifications are suitable for this machine.

Basis weight	75-90 g/m^2
Thickness	80-110 µm
Roughness	Higher than 20 sec.
Stiffness	90-150 cm^3/100
Grain direction	Long grain
Volume resistivity	10e^9-10e^{11} ohm
Surface resistivity	10e^9-10e^{12} ohm-cm
Filler	$CaCO_3$ (Neutral)
Ash content	Below 23 wt%
Brightness	Higher than 80%
Opacity	Higher than 85%

- Use paper made for plain paper copying.
- Use paper that is 75 to 90 g/m^2.
- Use long grain paper with a neutral Ph value, and a moisture content of approx. 5%.
- This machine can use recycled paper that meets DIN 19309 specifications.

Handling and using special paper

The machine is designed to work well with most types of xerographic and bond paper. However, some paper variables may have an effect on print quality or handling reliability. Always test samples of paper before purchasing to ensure desirable performance. Store paper in its original packaging and keep it sealed. Keep the paper flat and away from moisture, direct sunlight and heat.

Some important guidelines when selecting paper are:

- DO NOT use inkjet paper because it may cause a paper jam or damage your machine.
- Preprinted paper must use ink that can withstand the temperature of the machine's fusing process 392 degrees Fahrenheit (200 degrees centigrade).
- If you use bond paper, paper having a rough surface or paper that is wrinkled or creased, the paper may exhibit degraded performance.
- When you are using glossy paper, put only one sheet at a time in the MP tray to avoid a paper jam.

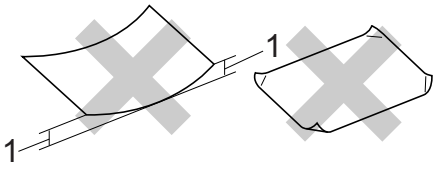
Types of paper to avoid

IMPORTANT

Some types of paper may not perform well or may cause damage to your machine.

DO NOT use paper:

- that is highly textured
- that is extremely smooth or shiny
- that is curled or warped



1 A curl of 2 mm or greater may cause jams to occur.

- that is coated or has a chemical finish
- that is damaged, creased or folded
- that exceeds the recommended weight specification in this guide
- with tabs and staples
- with letterheads using low temperature dyes or thermography
- that is multipart or carbonless
- that is designed for inkjet printing

If you use any of the types of paper listed, they may damage your machine. This damage may not be covered under any Brother warranty or service agreement.

Envelopes

Most envelopes designed for laser printers will be suitable for your machine. However, some envelopes may have feed and print-quality problems because of the way they have been made. A suitable envelope should have edges with straight, well-creased folds and the leading edge should not be thicker than two sheets of paper. The envelope should lie flat and not be of baggy or flimsy construction. You should buy quality envelopes from a supplier who understands that you will be using the envelopes in a laser machine.

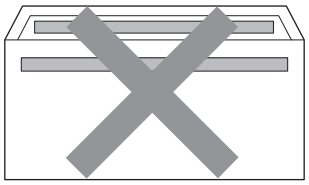
We recommend that you print a test envelope to make sure the print results are what you want.

Types of envelopes to avoid

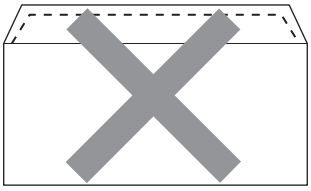
IMPORTANT

DO NOT use envelopes:

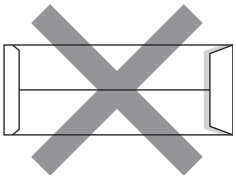
- that are damaged, curled, wrinkled or an unusual shape
- that are extremely shiny or textured
- with clasps, staples, snaps or tie strings
- with self-adhesive closures
- that are of a baggy construction
- that are not sharply creased
- that are embossed (have raised writing on them)
- that were previously printed by a laser machine
- that are pre-printed on the inside
- that cannot be arranged neatly when stacked
- that are made of paper that weighs more than the paper weight specifications for the machine
- with edges that are not straight or consistently square
- with windows, holes, cut-outs or perforations
- with glue on surface as shown in figure below



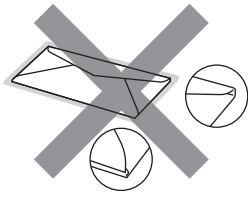
- with double flaps as shown in figure below



- with sealing flaps that are not folded down when purchased
- with sealing flaps as shown in figure below



- with each side folded as shown in figure below



If you use any of the types of envelopes listed above, they may damage your machine. This damage may not be covered under any Brother warranty or service agreement.

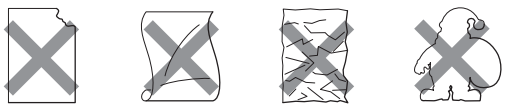
Labels

The machine will print on most types of labels designed for use with a laser machine. Labels should have an adhesive that is acrylic-based since this material is more stable at the high temperatures in the fuser unit. Adhesives should not come in contact with any part of the machine, because the label stock may stick to the drum unit or rollers and cause jams and print quality problems. No adhesive should be exposed between the labels. Labels should be arranged so that they cover the entire length and width of the sheet. Using labels with spaces may result in labels peeling off and causing serious jams or print problems.

All labels used in this machine must be able to withstand a temperature of 392 degrees Fahrenheit (200 degrees centigrade) for a period of 0.1 seconds.

Types of labels to avoid

Do not use labels that are damaged, curled, wrinkled or an unusual shape.



IMPORTANT

- DO NOT feed part used label sheets. The exposed carrier sheet will damage your machine.
- Label sheets should not exceed the paper weight specifications described in this User's Guide. Labels exceeding this specification may not feed or print correctly and may cause damage to your machine.
- DO NOT reuse or insert labels that have previously been used or are missing a few labels on the sheet.

3 Loading documents

How to load documents

You can make copies, and scan from the ADF (Automatic Document Feeder) and the scanner glass.

Using the automatic document feeder (ADF)

The ADF can hold up to 35 pages and feeds each sheet individually. Use standard 80 g/m^2 paper and always fan the pages before putting them in the ADF.

Document Sizes Supported

Length:	147.3 to 356.0 mm
Width:	147.3 to 215.9 mm
Weight:	64 to 90 g/m^2

How to load documents

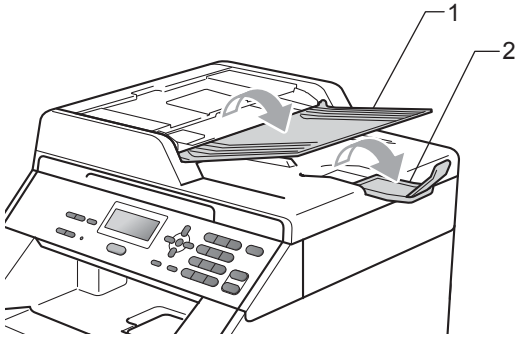
IMPORTANT

- DO NOT leave thick documents on the scanner glass. If you do this, the ADF may jam.
- DO NOT use paper that is curled, wrinkled, folded, ripped, stapled, paper-clipped, pasted or taped.
- DO NOT use cardboard, newspaper or fabric.
- To avoid damaging your machine while using the ADF, DO NOT pull on the document while it is feeding.

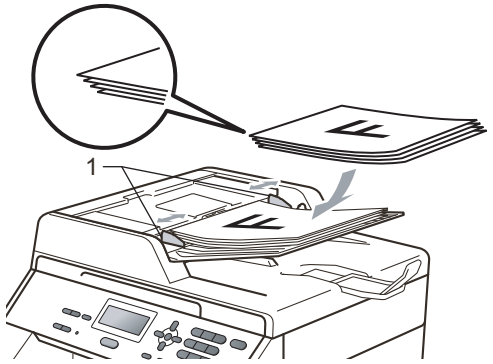
Note

- To scan documents that are not suitable for the ADF, see *Using the scanner glass* on page 26.
- It is easier to use the ADF if you are loading a multiple page document.
- Make sure documents with correction fluid or written with ink are completely dry.

1. Unfold the ADF document support (1) and the ADF document output support flap (2).



2. Fan the pages well.
3. Place your document **face up**, **top edge first** in the ADF until the LCD display message changes and you feel it touch the feed rollers.
4. Adjust the paper guides (1) to fit the width of your document.



Using the scanner glass

You can use the scanner glass to copy or scan pages of a book one page at a time.

Document Sizes Supported

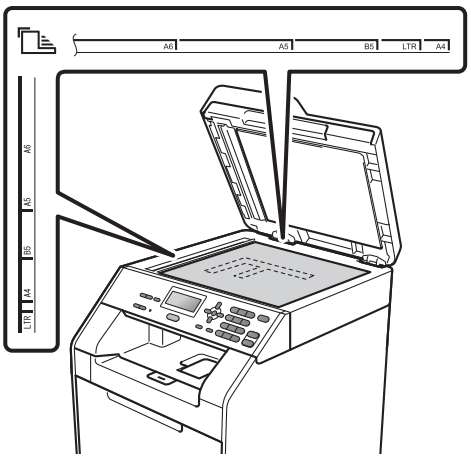
Length:	Up to 297.0 mm
Width:	Up to 215.9 mm
Weight:	Up to 2.0 kg

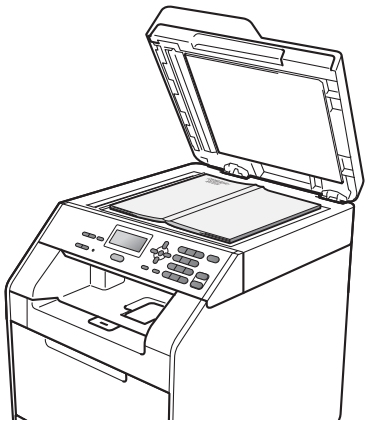
How to load documents

Note

To use the scanner glass, the ADF must be empty.

1. Lift the document cover.
2. Using the document guidelines on the left and top, place the document face down in the upper left corner of the scanner glass.





3. Close the document cover.

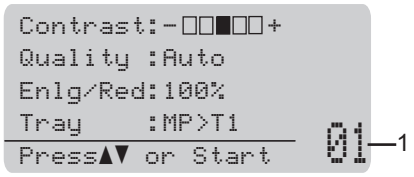
IMPORTANT

If the document is a book or is thick do not slam the cover or press on it.

4 Making copies

How to copy

The following steps show the basic copy operation. For details about each option, see the *Advanced User's Guide*.



1 No. of Copies

You can enter the number of copies you want by using the numeric keys.

1. Do one of the following to load your document:
   - Place the document face up in the ADF. (See *Using the automatic document feeder (ADF)* on page 25.)
   - Load your document face down on the scanner glass. (See *Using the scanner glass* on page 26.)
2. Press **Mono Start** or **Colour Start**.

Note

If the LCD shows `Please Wait` and the machine stops copying while you are making multiple copies, please wait for 30 to 40 seconds until the machine finishes the colour registration and cleaning process of the belt unit.

Stop copying

To stop copying, press **Stop/Exit**.

Copy settings

You can change the following copy settings:

Press ▲ or ▼ to scroll through the copy settings. When the setting you want is highlighted, press **OK**. For details about changing the following copy settings, see *Copy settings* in *Chapter 3* of the *Advanced User's Guide*.

- `Enlg/Red` (Enlarge/Reduce)
- `Stack/Sort`
- `Quality`
- `Contrast`
- `Brightness`
- `Color Adjust`
- `Page Layout`
- `Tray Select`
- `Duplex`

5 How to print from a computer

Printing a document

The machine can receive data from your computer and print it. To print from a computer, install the printer driver. (See *Printing* for Windows® or *Printing and Faxing* for Macintosh in *Software User's Guide* for the details about the print settings.)

1. Install the Brother printer driver on the Installation CD-ROM. (See the *Quick Setup Guide*.)
2. From your application, choose the Print command.
3. Choose the name of your machine in the **Print** dialog box and click **Properties**.
4. Choose the settings you want in the **Properties** dialog box.
   - **Paper Size**
   - **Orientation**
   - **Copies**
   - **Media Type**
   - **Print Quality**
   - **Colour / Mono**
   - **Multiple Page**
   - **Duplex / Booklet**
   - **Paper Source**
5. Click **OK** to begin printing.

6 How to scan to a computer

Scanning a document

There are several ways to scan documents. You can use the (**SCAN**) key on the machine or the scanner drivers on your computer.

1. To use the machine as a scanner, install a scanner driver. If the machine is on a Network, configure it with a TCP/IP address.
   - Install the scanner drivers on the Installation CD-ROM. (See the *Quick Setup Guide* and *Scanning* in the *Software User's Guide*.)
   - Configure the machine with a TCP/IP address if network scanning does not work. (See *Configuring Network Scanning* in the *Software User's Guide*.)
2. Load your document. (See *How to load documents* on page 25.)
   - Use the ADF to scan multiple pages of documents. It feeds each sheet automatically.
   - Use the scanner glass to scan a page of a book or one sheet at a time.
3. Do one of the following:
   - To scan using the (**SCAN**) key, go to *Scanning using the scan key* on page 29.
   - To scan using a scanner driver at your computer, go to *Scanning using a scanner driver* on page 30.

Scanning using the scan key

For more information, see *Using the Scan key* in the *Software User's Guide*.

1. Press the (**SCAN**) key.
2. Choose the scan mode you want. Scan to:
   - File
   - E-mail
   - OCR [1]
   - Image
   - FTP
   - Network

   [1] (Macintosh users)
   Presto! PageManager must be downloaded and installed before use. See *Accessing Brother Support (Macintosh)* on page 4 for further instructions.
3. (For network users)
   Choose the computer you want to send the data to.
4. Press **Mono Start** or **Colour Start** to begin scanning.

Scanning using a scanner driver

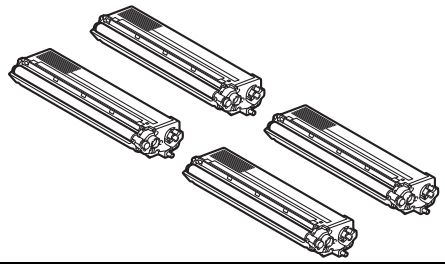
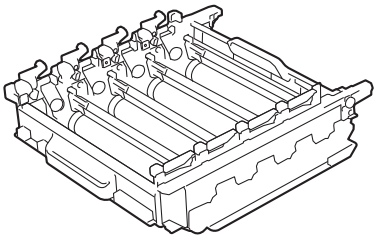
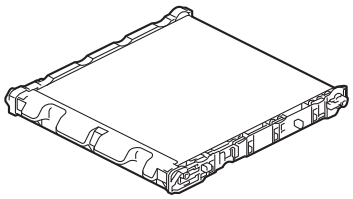
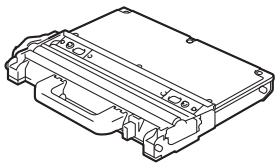
For more information, see *Scanning a document using the TWAIN driver* or *Scanning a document using the WIA driver* in the *Software User's Guide*.

1. Start a scanning application and click the **Scan** button.
2. Adjust the settings such as Resolution, Brightness and Scan Type in the Scanner Setup dialog box.
3. Click **Start** or **Scan** to begin scanning.

A Routine maintenance

Replacing the consumable items

The following messages appear on the LCD in the Ready mode. These messages provide advanced warnings to replace the consumable items before they reach the end of their life. To avoid any inconvenience, you may want to buy spare consumable items before the machine stops printing.

Toner cartridge	Drum unit
See *Replacing a Toner cartridge* on page 35. Model Name: TN-320BK, TN-325BK, TN-320C, TN-325C, TN-320M, TN-325M, TN-320Y, TN-325Y	See *Replacing the drum unit* on page 41. Model Name: DR-320CL
	
Belt unit	**Waste toner box**
See *Replacing the belt unit* on page 48. Model Name: BU-300CL	See *Replacing the waste toner box* on page 53. Model Name: WT-300CL
	

LCD messages	Consumable item to replace	Approximate life	How to replace	Model name
Toner Low Prepare New X Toner Cartridge.	Toner cartridge X = Black, Cyan, Magenta, Yellow	<Black> 2,500 pages [1] [2] [3] 4,000 pages [1] [2] [4] <Cyan, Magenta, Yellow> 1,500 pages [1] [2] [3] 3,500 pages [1] [2] [4]	See page 35.	TN-320BK [3], TN-325BK [4], TN-320C [3], TN-325C [4], TN-320M [3], TN-325M [4], TN-320Y [3], TN-325Y [4]
WT Box End Soon	Waste toner box	50,000 pages [1]	See page 53.	WT-300CL

1 A4 or Letter size single-sided pages.

2 Approx. cartridge yield is declared in accordance with ISO/IEC 19798.

3 Standard toner cartridge

4 High capacity toner cartridge

You will need to clean the machine regularly and replace the consumable items when the following messages are displayed on the LCD.

LCD messages	Consumable item to replace	Approximate life	How to replace	Model name
Replace Toner	Toner cartridge	<Black> 2,500 pages [1 2 5] 4,000 pages [1 2 6] <Cyan, Magenta, Yellow> 1,500 pages [1 2 5] 3,500 pages [1 2 6]	See page 35.	TN-320BK [5], TN-325BK [6], TN-320C [5], TN-325C [6], TN-320M [5], TN-325M [6], TN-320Y [5], TN-325Y [6]
Replace Parts Drum	Drum unit	25,000 pages [1 3 4]	See page 42.	DR-320CL
Drum Stop				
Replace Parts Belt Unit	Belt unit	50,000 pages [1]	See page 48.	BU-300CL
Replace WT Box	Waste toner box	50,000 pages [1]	See page 53.	WT-300CL
Replace Parts Fuser Unit	Fuser unit	100,000 pages [1]	Call your Brother dealer for a replacement fuser unit.	
Replace Parts Laser Unit	Laser unit	100,000 pages [1]	Call your Brother dealer for a replacement laser unit.	
Replace Parts PF Kit 1	Paper feeding kit 1	100,000 pages [1]	Call your Brother dealer for a replacement paper feeding kit 1.	
Replace Parts PF Kit 2	Paper feeding kit 2	100,000 pages [1]	Call your Brother dealer for a replacement paper feeding kit 2.	
Replace Parts PF Kit MP	Paper feeding kit MP	50,000 pages [1]	Call your Brother dealer for a replacement paper feeding kit MP.	

1 A4 or Letter size single-sided pages.

2 Approx. cartridge yield is declared in accordance with ISO/IEC 19798.

3 1 page per job.

4 Drum life is approximate and may vary by type of use.

5 Standard toner cartridge

6 High capacity toner cartridge

Note

- If you choose not to return your used consumable, please discard the used consumable according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office. (See *EU Directive 2002/96/EC and EN 50419* in the *Safety and Legal Booklet*.)
- We recommend placing used consumable items on a piece of paper to prevent accidentally spilling or scattering the material inside.
- If you use paper that is not a direct equivalent for the recommended paper, the life of consumable items and machine parts may be reduced.
- The projected life of the toner cartridges is based on ISO/IEC 19798. Frequency of replacement will vary depending on the complexity of printed pages, percentage of coverage and type of media used.

Replacing a Toner cartridge

Model Name: For the model name of toner cartridges, see *Replacing the consumable items* on page 31.

The Standard toner cartridges can print approximately 2,500 pages (black) or approximately 1,500 pages (cyan, magenta, yellow) [1]. The High Yield toner cartridges can print approximately 4,000 pages (black) or approximately 3,500 pages (cyan, magenta, yellow) [1]. Actual page count will vary depending on your average type of document. When a toner cartridge is running low, the LCD shows `Toner Low`.

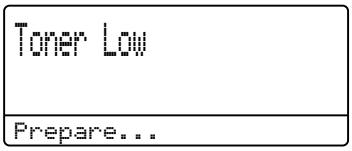
The toner cartridges that come supplied with the machine are standard toner cartridges.

[1] Approx. cartridge yield is declared in accordance with ISO/IEC 19798.

Note

- It is a good idea to keep a new toner cartridge ready for use when you see the `Toner Low` warning.
- To ensure high quality printing, we recommend that you use only Brother Original toner cartridges. When you want to buy toner cartridges, please call your Brother dealer.
- We recommend that you clean the machine when you replace the toner cartridge. See *Cleaning and Checking the machine* on page 60.
- If you change the print density setting for lighter or darker printing, the amount of toner used will change.
- Wait to unpack the toner cartridge until immediately before you put it into the machine.

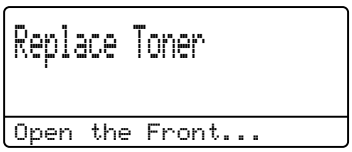
Toner Low



If the LCD shows `Toner Low Prepare New X Toner Cartridge.`, buy a new toner cartridge and have it ready before you get a `Replace Toner` message. The LCD shows the toner colour that is near the end of its life (Cyan, Magenta, Yellow or Black).

Replace Toner

When the following message appears on the LCD, you need to replace the toner cartridge:



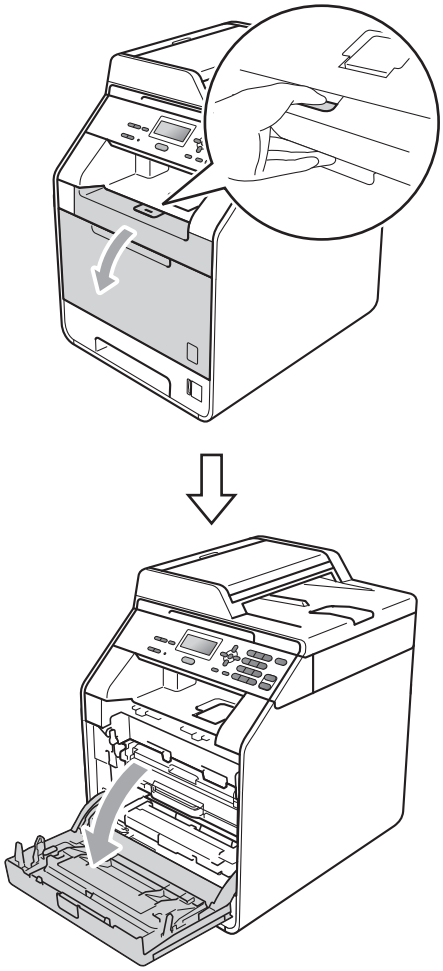
The message in the last line of the LCD indicates which colour you need to replace.

The machine will stop printing until you replace the toner cartridge. A new or unused Brother Original toner cartridge will reset the Replace Toner mode.

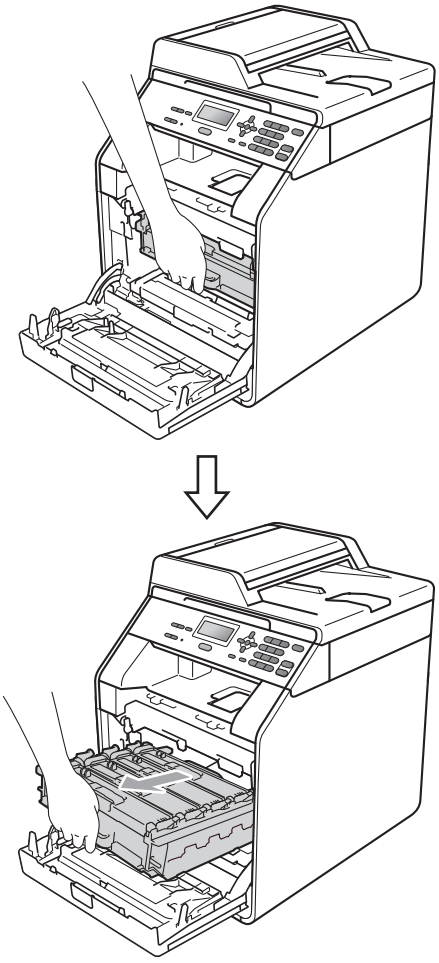
Replacing the toner cartridge

1. Make sure that the machine is turned on.

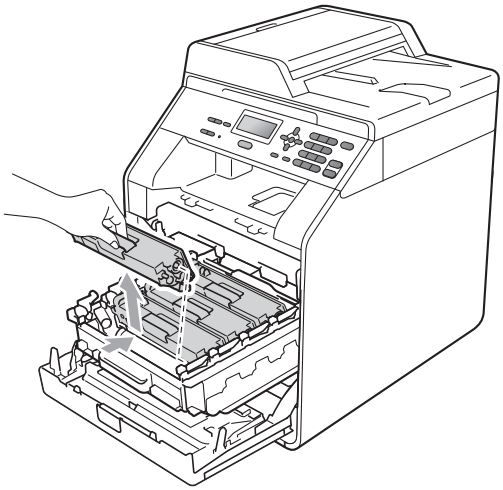
2. Press the front cover release button and then open the front cover.



3. Hold the green handle of the drum unit. Pull the drum unit out until it stops.



4 Hold the handle of the toner cartridge and slightly push it toward the machine to unlock it. Then pull it out of the drum unit. Repeat this for all the toner cartridges.



WARNING

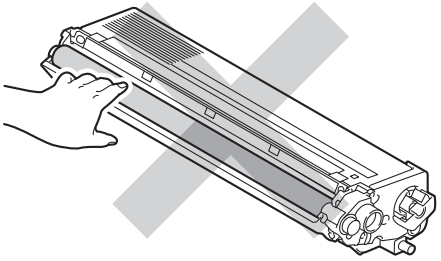
DO NOT put a toner cartridge into a fire. It could explode, resulting in injuries.

DO NOT use cleaning materials that contain ammonia, alcohol, any type of spray or any type of flammable substance to clean the inside or outside of the machine. Doing this may cause a fire or electrical shock.
See *To use the product safely* in the *Safety and Legal Booklet* for how to clean the machine.

Be careful not to inhale toner.

IMPORTANT

- We recommend that you place the drum unit and/or the toner cartridge on a clean, flat, level, stable surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- Handle the toner cartridge carefully. If toner scatters on your hands or clothes, wipe or wash it off with cold water at once.
- To avoid print quality problems, DO NOT touch the shaded parts shown in the illustration.

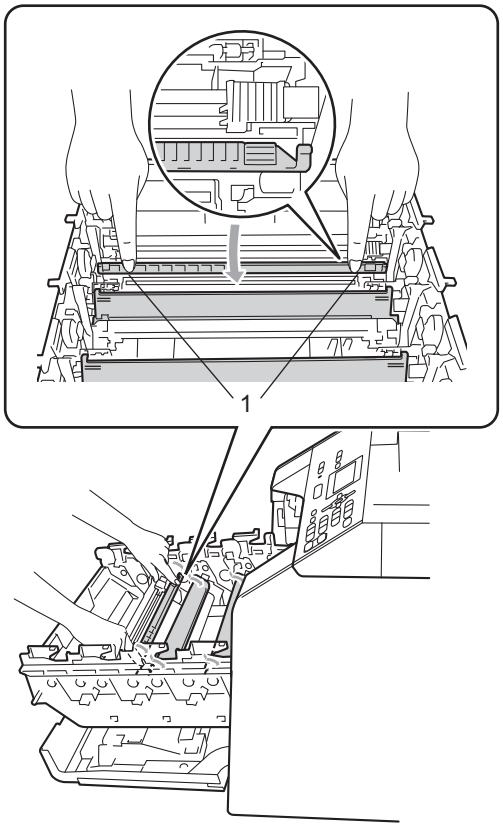


Note

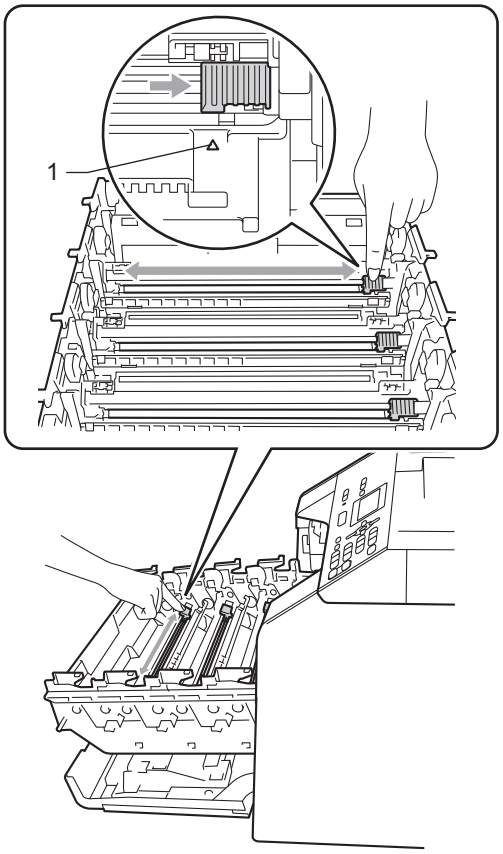
- Be sure to seal up the toner cartridge tightly in a suitable bag so that toner powder does not spill out of the cartridge.
- If you choose not to return your used consumable, please discard the used consumable according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office. (See *EU Directive 2002/96/EC and EN 50419* in the *Safety and Legal Booklet*.)

A

5 Push to release the latches of the corona wire cover (1), and then open the cover.



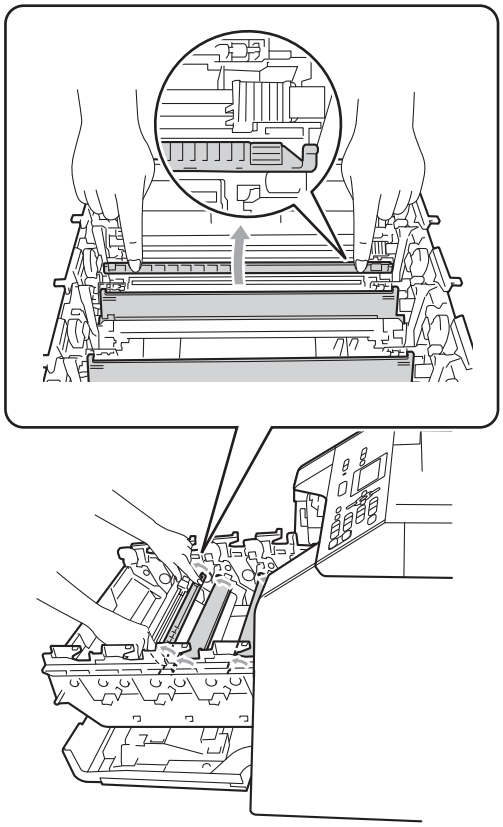
6 Clean the corona wire inside the drum unit by gently sliding the green tab from left to right and right to left several times.



Note

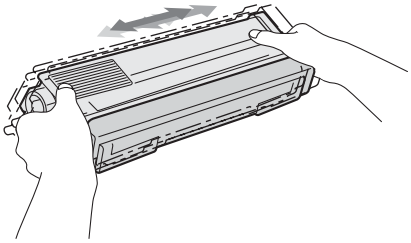
Be sure to return the tab to the home position (▲) (1). If you do not, printed pages may have a vertical stripe.

7 Close the corona wire cover.



8 Repeat steps ❺ to ❼ to clean each of three remaining corona wires.

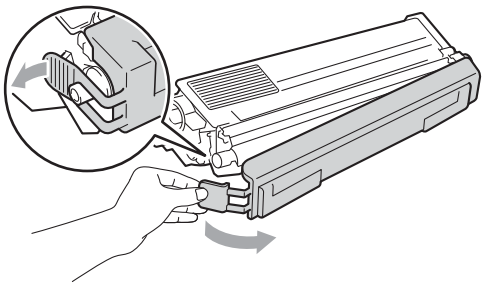
9 Unpack the new toner cartridge. Gently shake it from side to side several times to distribute the toner evenly inside the cartridge.



IMPORTANT

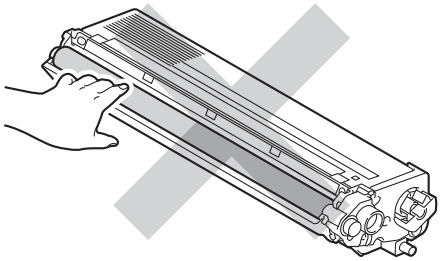
- Unpack the toner cartridge just before you put it in the machine. If a toner cartridge is left unpacked for a long time, the toner life will be shortened.
- If an unpacked drum unit is put in direct sunlight or room light, the unit may be damaged.
- Brother machines are designed to work with toner of a particular specification and will work to a level of optimum performance when used with Brother Original toner cartridges. Brother cannot guarantee this optimum performance if toner or toner cartridges of other specifications are used. Brother does not therefore recommend the use of cartridges other than Brother Original cartridges with this machine, or the refilling of empty cartridges with toner from other sources. If damage is caused to the drum unit or other part of this machine as a result of the use of toner or toner cartridges other than Brother Original products due to the incompatibility or lack of suitability of those products with this machine, any repairs required as a result may not be covered by the warranty.

10 Pull off the protective cover.

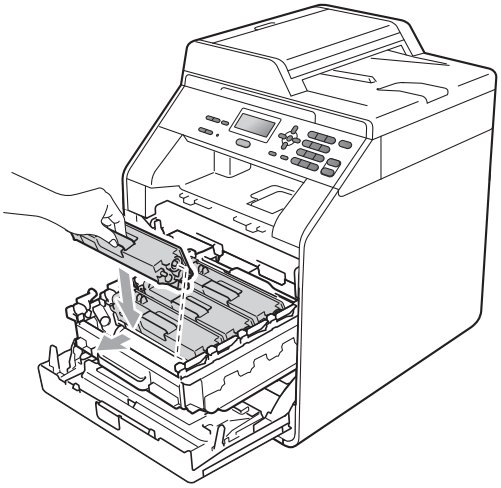


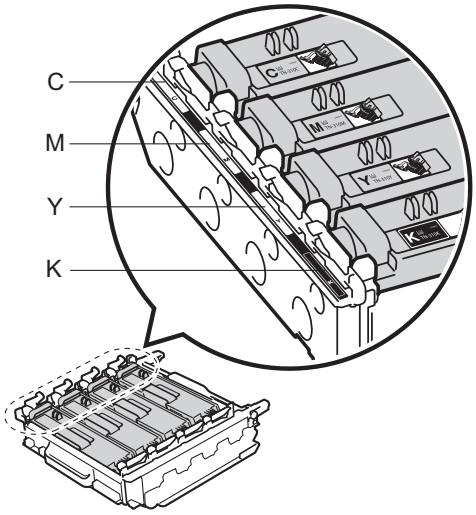
IMPORTANT

Put the toner cartridge in the drum unit immediately after you have removed the protective cover. To prevent any degradation to the print quality, DO NOT touch the shaded parts shown in the illustrations.



11 Hold the handle of the toner cartridge and slide the toner cartridge into the drum unit then slightly pull it toward you until you hear it click into place. Make sure that you match the toner cartridge colour to the same colour label on the drum unit. Repeat this for all the toner cartridges.

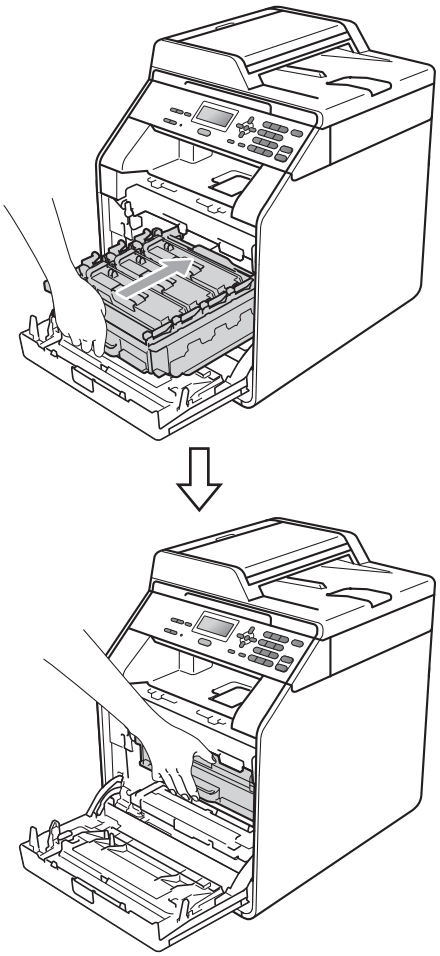




C - Cyan M - Magenta

Y - Yellow K - Black

⓬ Push the drum unit in until it stops.



⓭ Close the front cover of the machine.

Note

After you replace a toner cartridge, DO NOT turn off the machine's power switch or open the front cover until the LCD clears the `Please Wait` message and returns to Ready mode.

Replacing the drum unit

Model name: DR-320CL

A new drum unit can print approximately 25,000 A4 or Letter size single-sided pages.

IMPORTANT

For best performance, use a Brother Original drum unit and Brother Original toner units. Printing with a third-party drum unit or toner unit may reduce not only the print quality but also the quality and life of the machine itself. Warranty coverage may not apply to problems caused by the use of third-party drum or toner units.

Drum Error

The corona wires have become dirty. Clean the corona wires in the drum unit. (See *Cleaning the corona wires* on page 66.)

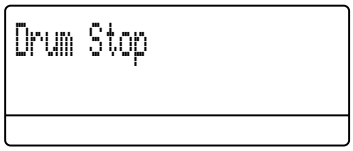
If you cleaned the corona wires and `Drum Error` was not cleared then the drum unit is at the end of its life. Replace the drum unit with a new one.

Replace Drum

The drum unit has exceeded its rated life. Please replace the drum unit with a new one. We recommend a Brother Original drum unit be installed at this time.

After replacement, reset the drum counter by following the instructions included with the new drum unit.

Drum Stop



We cannot guarantee the print quality. Please replace the drum unit with a new one. We recommend a Brother Original drum unit be installed at this time.

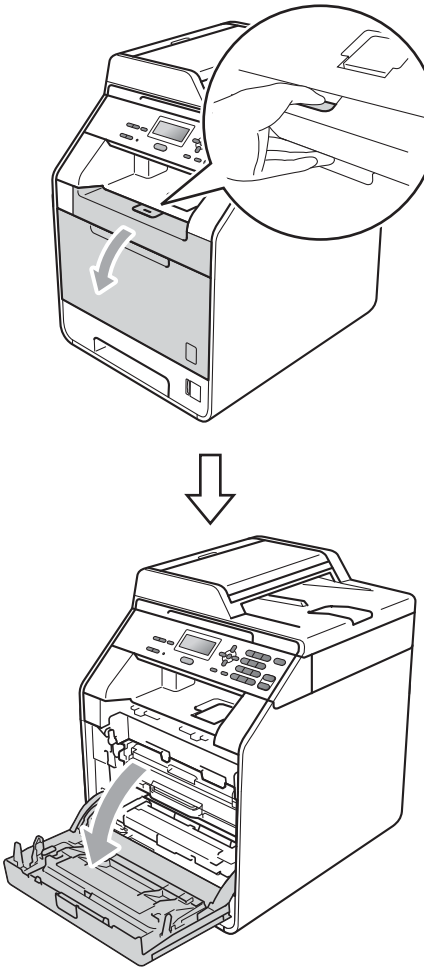
After replacement, reset the drum counter by following the instructions included with the new drum unit.

Replacing the drum unit

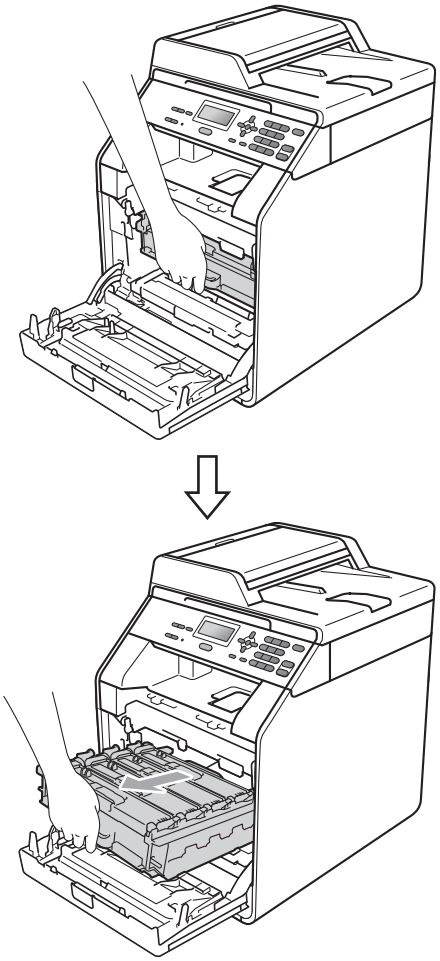
IMPORTANT

- While removing the drum unit, handle it carefully because it may contain toner. If toner scatters on your hands or clothes, wipe or wash it off with cold water at once.
- Every time you replace the drum unit, clean the inside of the machine. (See *Cleaning and Checking the machine* on page 60.)

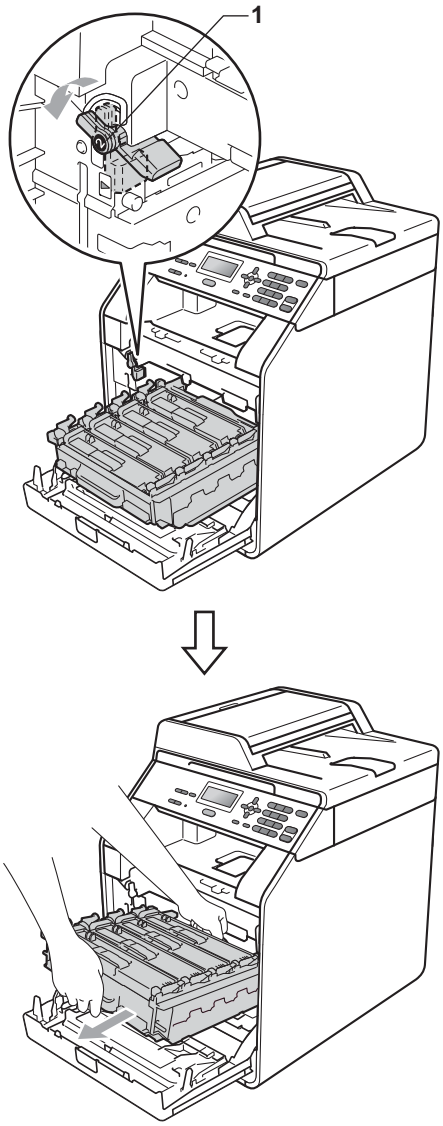
1. Make sure that the machine is turned on.
2. Press the front cover release button and then open the front cover.



3 Hold the green handle of the drum unit. Pull the drum unit out until it stops.

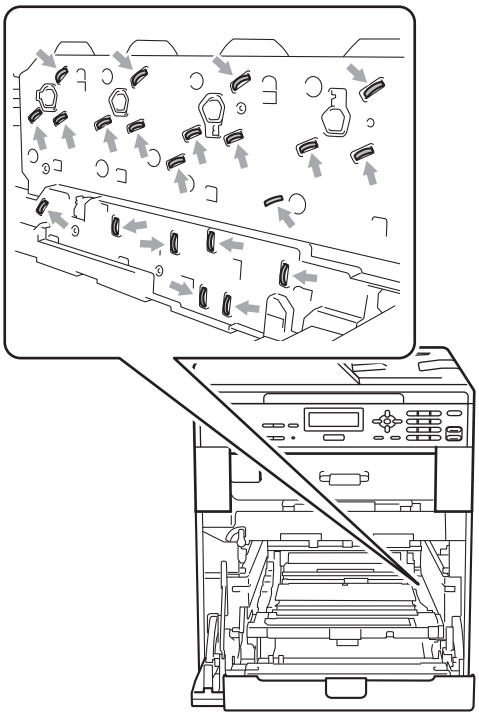


4 Turn the green lock lever (1) at the left of the machine anticlockwise to the release position. Holding the green handles of the drum unit, lift the front of the drum unit and remove it from the machine.



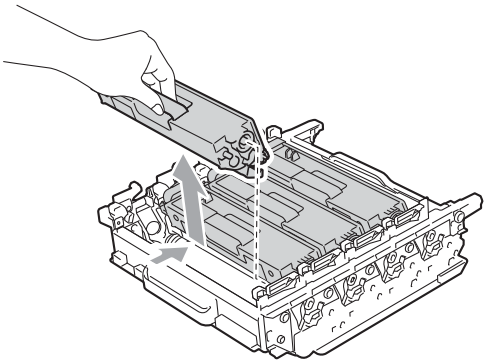
IMPORTANT

- We recommend that you place the drum unit and/or the toner cartridge on a clean, flat surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- To prevent damage to the machine from static electricity, DO NOT touch the electrodes shown in the illustration.



- Hold the green handles of the drum unit when you carry it. DO NOT hold the side of the drum unit.

5 Hold the handle of the toner cartridge and slightly push it to unlock it. Then pull it out of the drum unit. Repeat this for all the toner cartridges.



WARNING

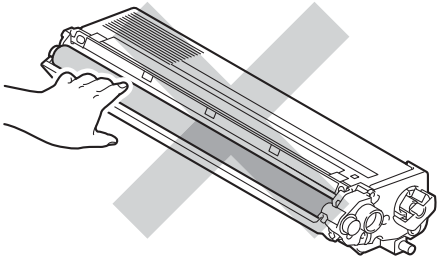
DO NOT put a toner cartridge into a fire. It could explode, resulting in injuries.

DO NOT use cleaning materials that contain ammonia, alcohol, any type of spray, or any type of flammable substance to clean the outside or inside of the machine. Doing this may cause a fire or electrical shock.
See *To use the product safely* in the *Safety and Legal Booklet* for how to clean the machine.

Be careful not to inhale toner.

IMPORTANT

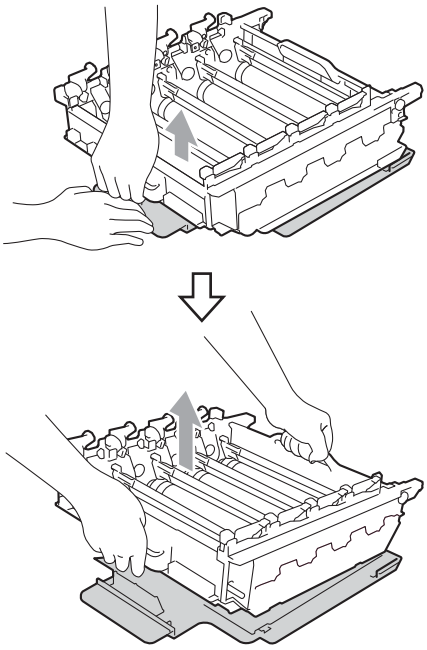
- Handle the toner cartridge carefully. If toner scatters on your hands or clothes, wipe or wash it off with cold water at once.
- We recommend that you place the drum unit and/or the toner cartridge on a clean, flat surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- To avoid print quality problems, DO NOT touch the shaded parts shown in the illustrations.



Note

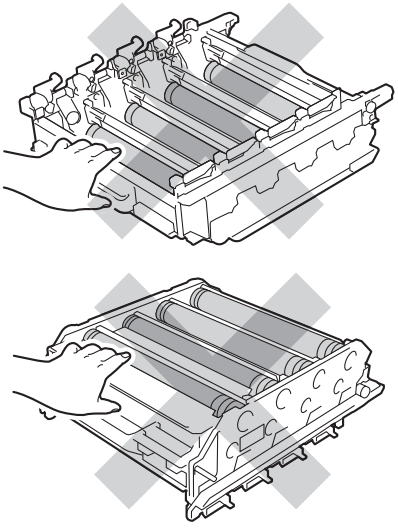
- Be sure to seal up the used drum unit tightly in a bag so that toner powder does not spill out of the unit.
- If you choose not to return your used consumable, please discard the used consumable according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office. (See *EU Directive 2002/96/EC and EN 50419* in the *Safety and Legal Booklet*.)

6 Unpack the new drum unit and remove the protective cover.



IMPORTANT

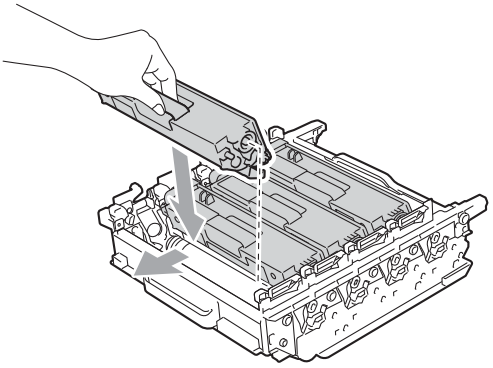
- To avoid print quality problems, DO NOT touch the shaded parts shown in the illustrations.

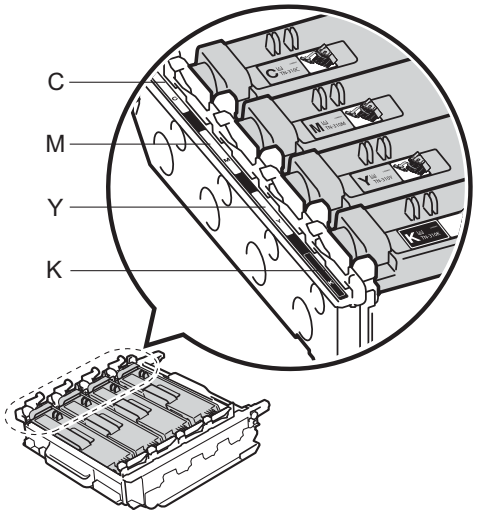


- Unpack the drum unit just before you put it in the machine. Exposure to direct sunlight or room light may damage the drum unit.

A

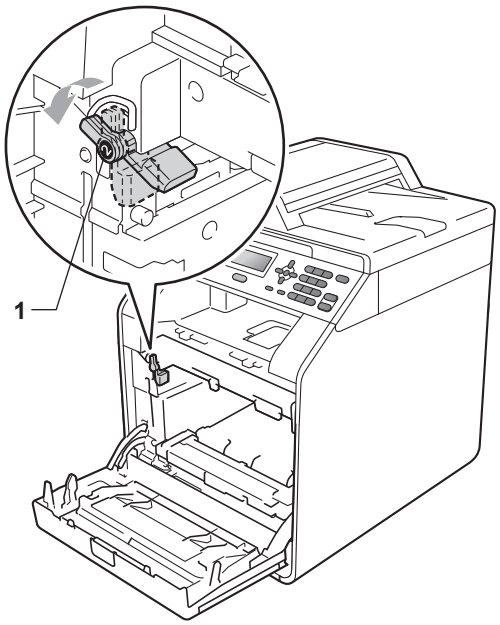
7 Hold the handle of the toner cartridge and slide the toner cartridge into the new unit, then slightly pull it toward you until you hear it click into place. Make sure that you match the toner cartridge colour to the same colour label on the drum unit. Repeat this for all the toner cartridges.



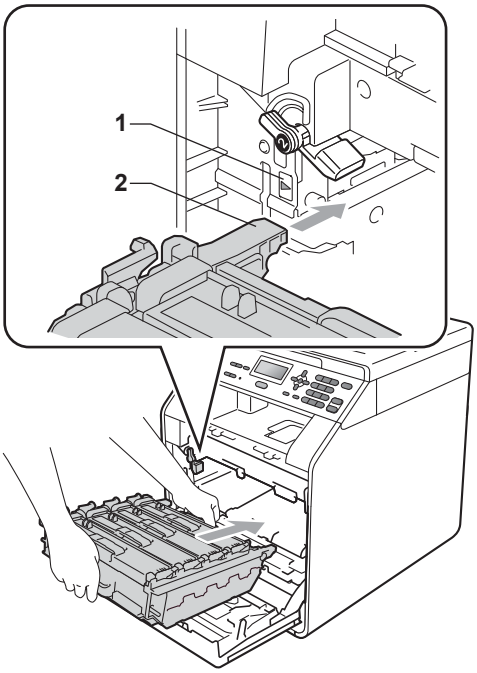


C - Cyan M - Magenta
Y - Yellow K - Black

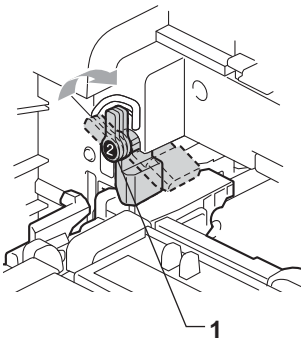
8 Make sure the green lock lever (1) is in the release position as shown in the illustration.



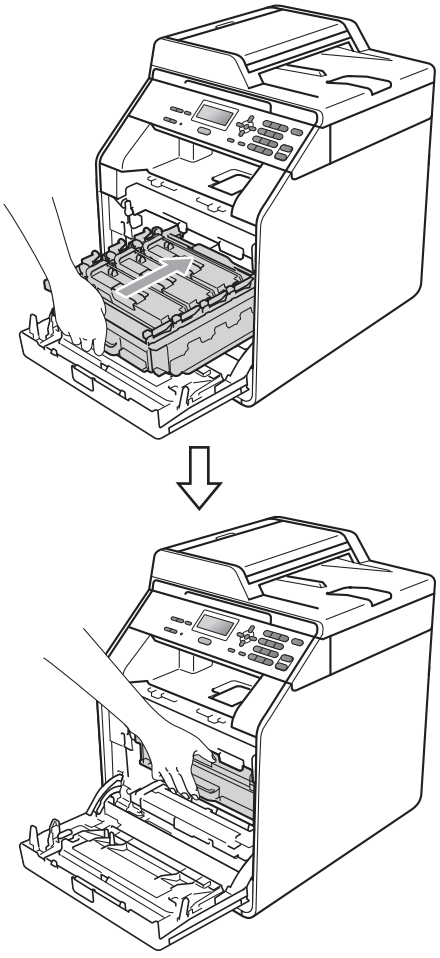
9 Match the guide ends (2) of the drum unit to the ▶ marks (1) on both sides of the machine, then gently slide the drum unit into the machine until it stops at the green lock lever.



10 Turn the green lock lever (1) clockwise to the lock position.



11 Push the drum unit in until it stops.



12 Close the front cover of the machine.

Resetting the drum counter

When you replace a drum unit with a new one, you need to reset the drum counter by completing the following steps:

1 Press **Menu**, **5**, **8**.

2 Press ▲ or ▼ to choose `Drum`. Press **OK**.

3 Press **1** to reset the drum unit counter.

4 Press **Stop/Exit**.

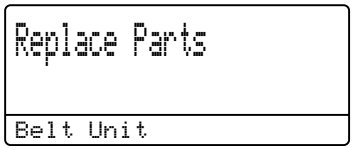
Replacing the belt unit

Model name: BU-300CL

A new belt unit can print approximately 50,000 A4 or Letter size single-sided pages.

Replace Belt

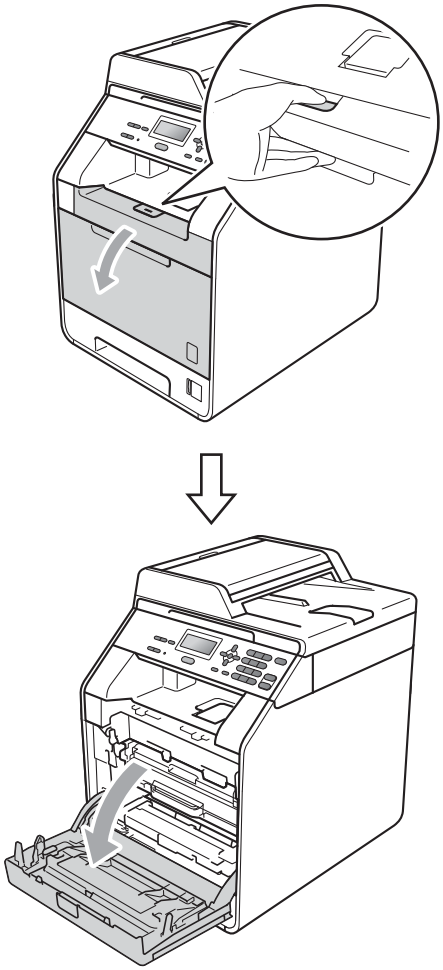
When the following message appears on the LCD, you need to replace the belt unit:



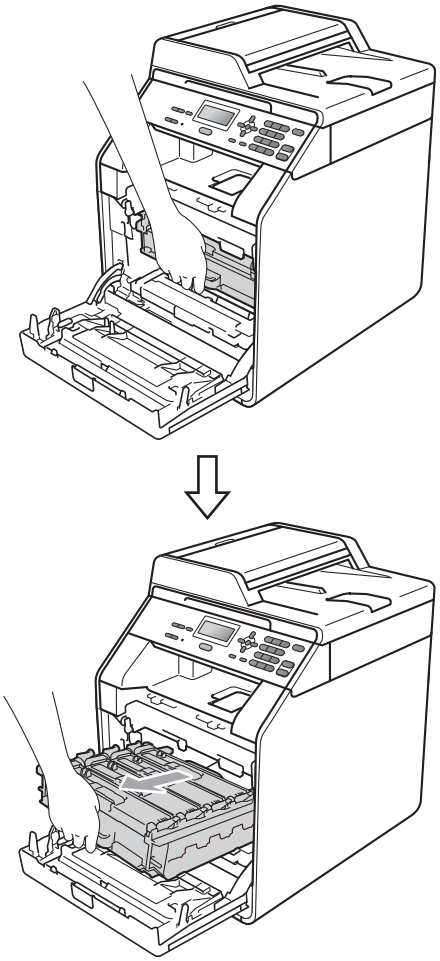
IMPORTANT

- DO NOT touch the surface of the belt unit. If you touch it, it could degrade print quality.
- Damage caused by incorrect handling of the belt unit may void your warranty.

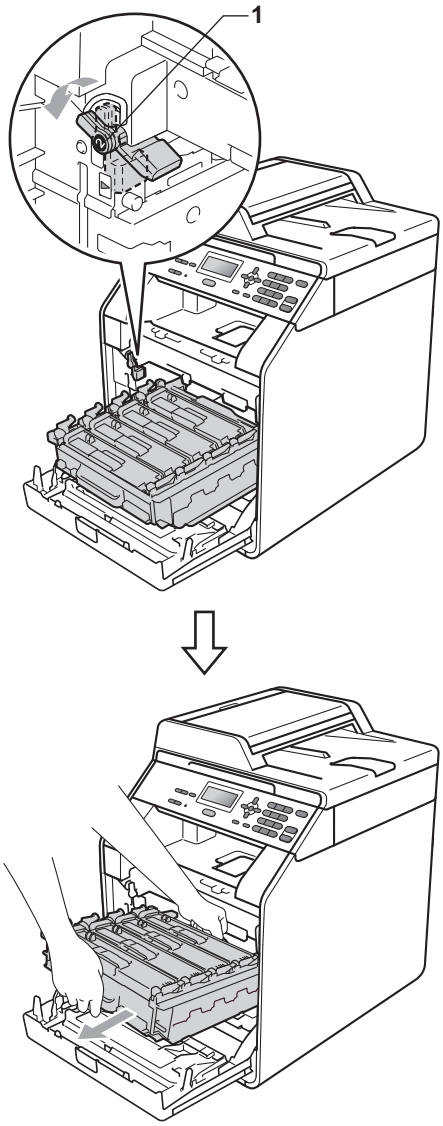
1. Make sure that the machine is turned on.
2. Press the front cover release button and then open the front cover.



3 Hold the green handle of the drum unit. Pull the drum unit out until it stops.

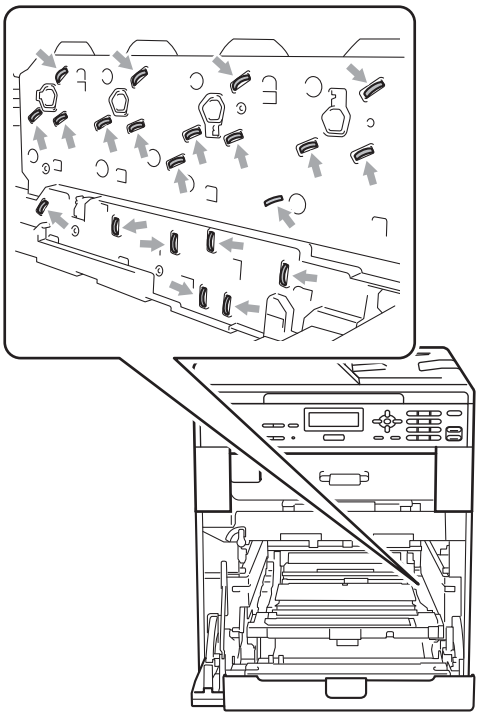


4 Turn the green lock lever (1) at the left of the machine anticlockwise to the release position. Holding the green handles of the drum unit, lift the front of the drum unit and remove it from the machine.

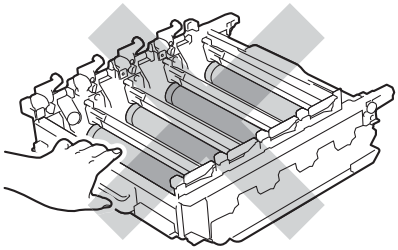


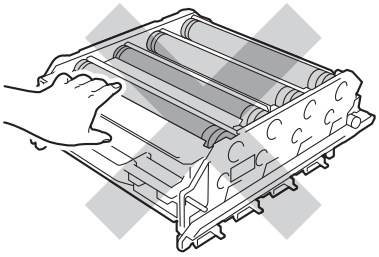
IMPORTANT

- We recommend that you place the drum unit and/or the toner cartridge on a clean, flat surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- To prevent damage to the machine from static electricity, DO NOT touch the electrodes shown in the illustration.

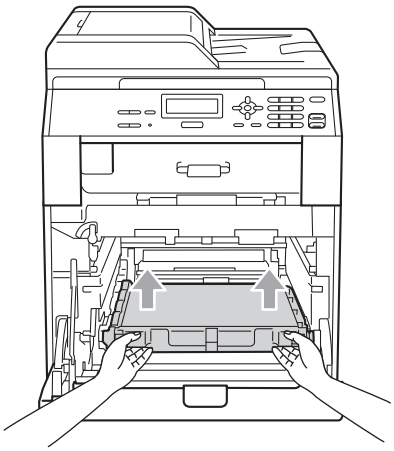


- Hold the green handles of the drum unit when you carry it. DO NOT hold the side of the drum unit.
- To avoid print quality problems, DO NOT touch the shaded parts shown in the illustrations.



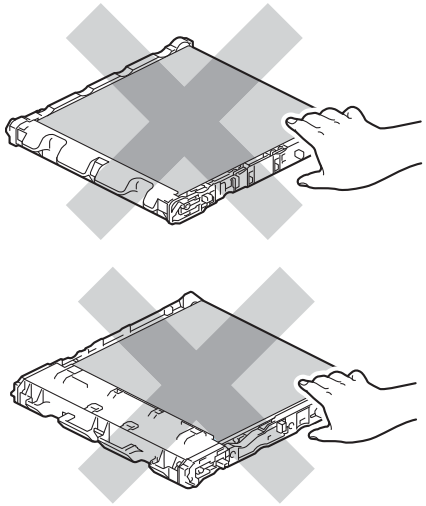


5 Hold the green handle of the belt unit with both hands and lift the belt unit up, then pull it out.



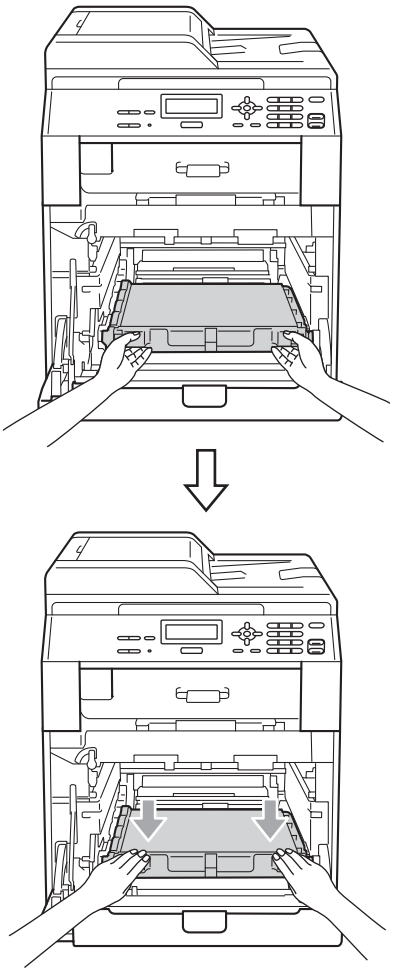
IMPORTANT

To avoid print quality problems, DO NOT touch the shaded parts shown in the illustration.

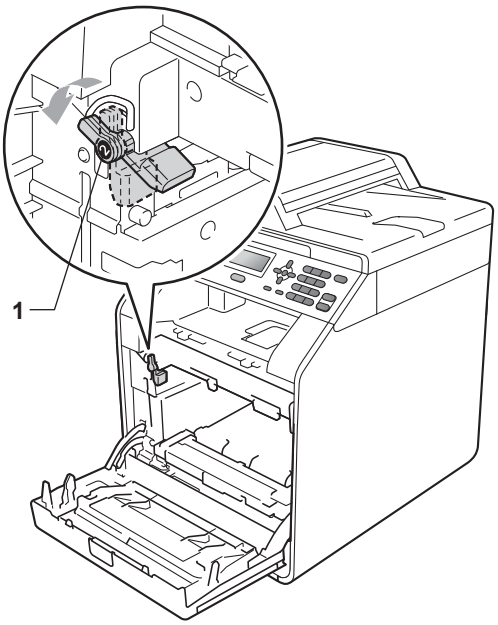


6 Unpack the new belt unit.

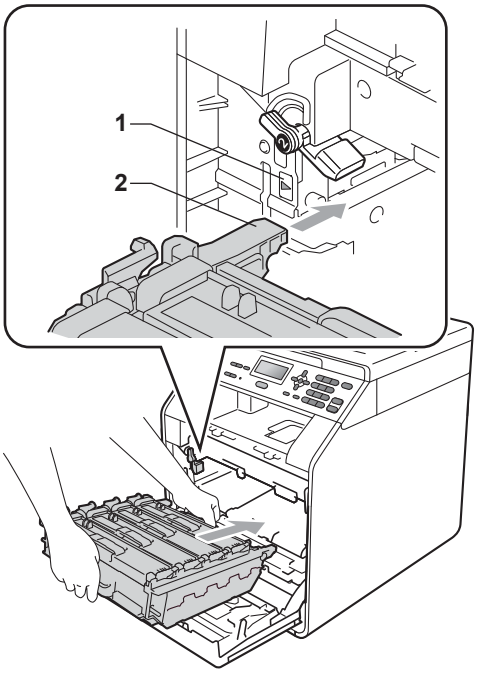
7 Put the new belt unit back in the machine. Make sure the belt unit is level and fits firmly into place.



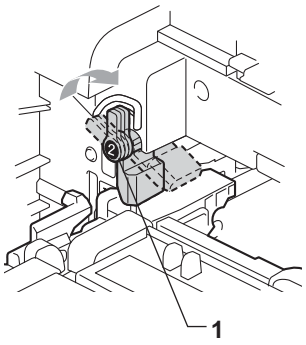
8 Make sure the green lock lever (1) is in the release position as shown in the illustration.



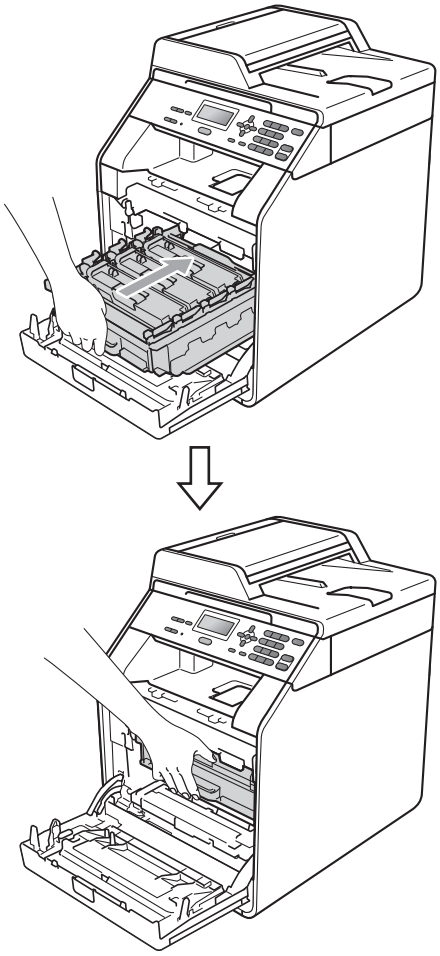
9 Match the guide ends (2) of the drum unit to the ▶ marks (1) on both sides of the machine, then gently slide the drum unit into the machine until it stops at the green lock lever.



10 Turn the green lock lever (1) clockwise to the lock position.



11 Push the drum unit in until it stops.



12 Close the front cover of the machine.

Resetting the belt unit counter

When you replace a belt unit with a new one, you need to reset the belt unit counter by completing the following steps:

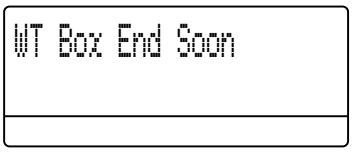
1. Press **Menu**, **5**, **8**.
2. Press ▲ or ▼ to select `Belt Unit`. Press **OK**.
3. Press **1** to reset the belt unit counter.
4. Press **Stop/Exit**.

Replacing the waste toner box

Model name: WT-300CL

A new waste toner box can print approximately 50,000 A4 or Letter size single-sided pages.

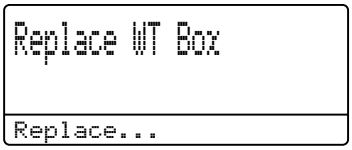
WT Box End Soon



If the LCD shows `WT Box End Soon`, it means the waste toner box is near the end of its life. Buy a new waste toner box and have it ready before you get a `Replace WT Box` message.

Replace WT Box

When the following message appears on the LCD, you need to replace the waste toner box:



⚠ WARNING

DO NOT put the waste toner box into a fire. It could explode.

Be careful not to spill the toner. DO NOT inhale or allow it to get into your eyes.

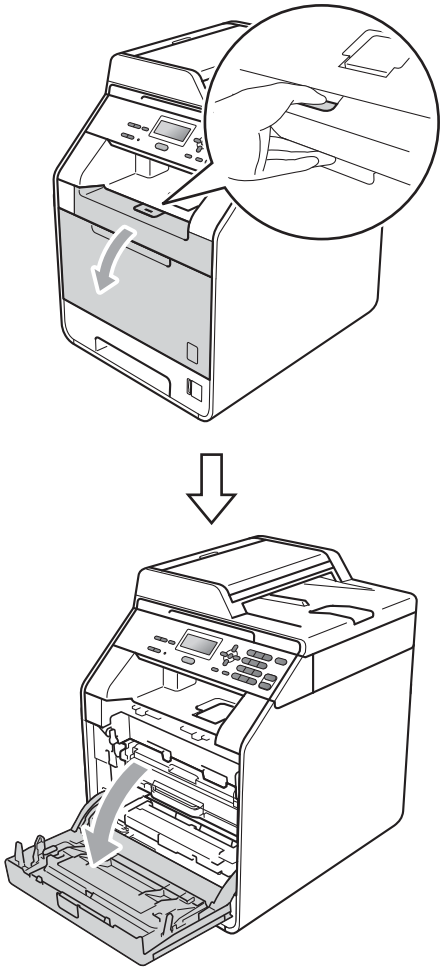
IMPORTANT

DO NOT reuse the waste toner box.

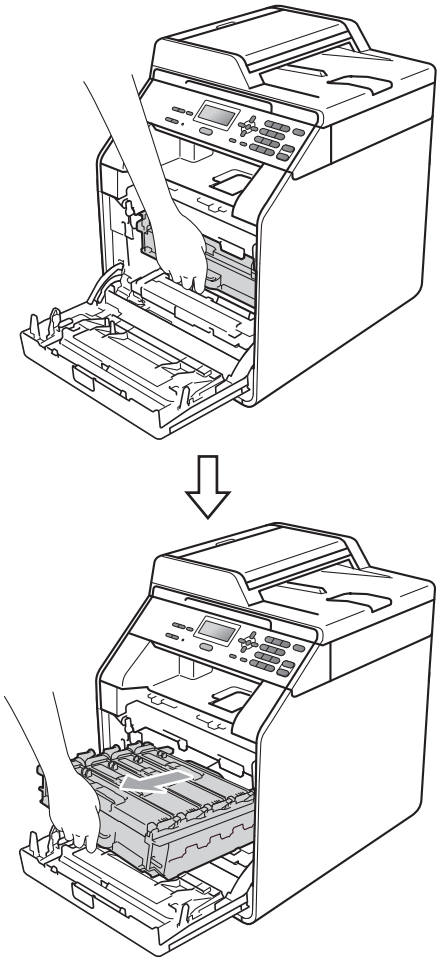
A

1 Make sure that the machine is turned on.

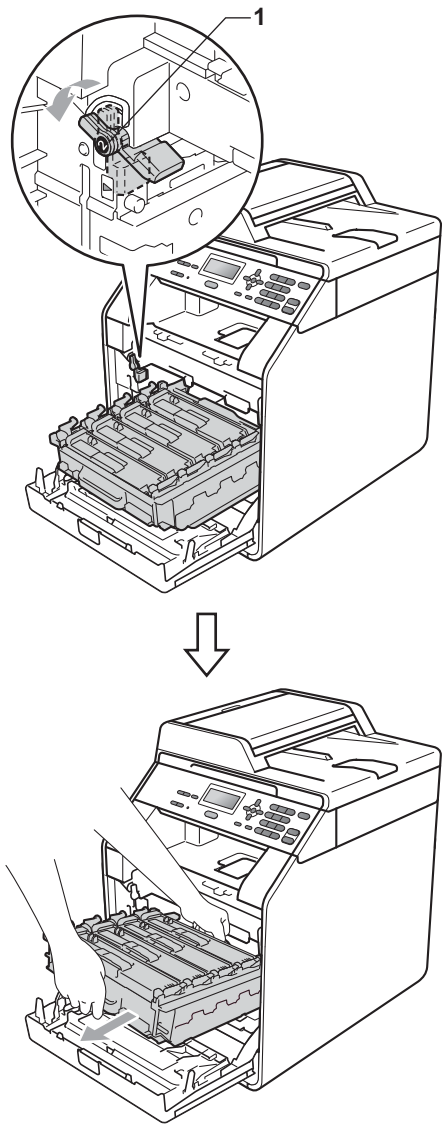
2 Press the front cover release button and then open the front cover.



3 Hold the green handle of the drum unit. Pull the drum unit out until it stops.

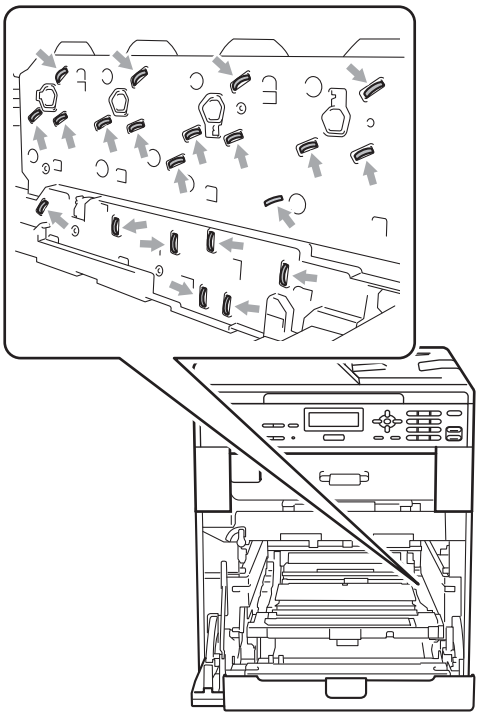


4 Turn the green lock lever (1) at the left of the machine anticlockwise to the release position. Holding the green handles of the drum unit, lift the front of the drum unit and remove it from the machine.



IMPORTANT

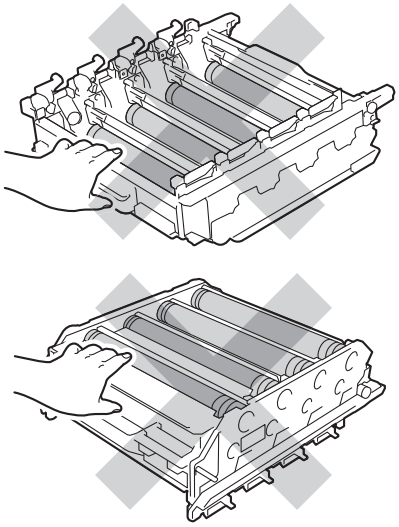
- We recommend that you place the drum unit and/or the toner cartridge on a clean, flat surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- To prevent damage to the machine from static electricity, DO NOT touch the electrodes shown in the illustration.



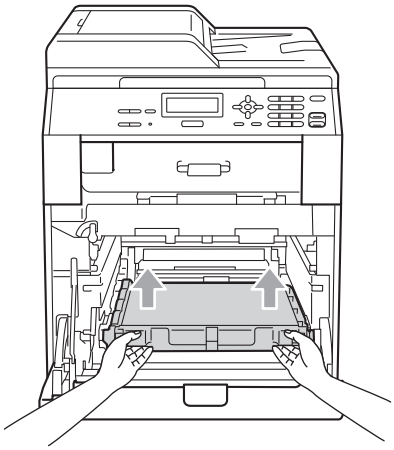
- Hold the green handles of the drum unit when you carry it. DO NOT hold the side of the drum unit.

A

- To avoid print quality problems, DO NOT touch the shaded parts shown in the illustrations.

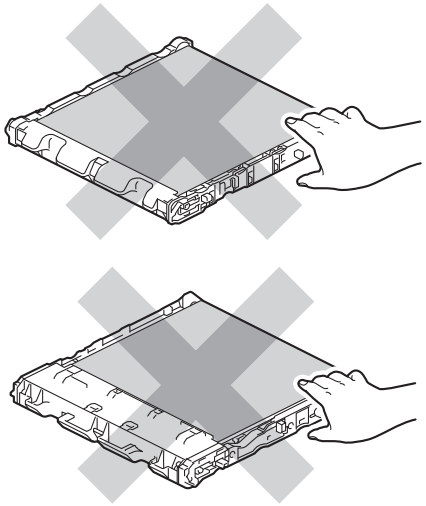


5 Hold the green handle of the belt unit with both hands and lift the belt unit up, then pull it out.

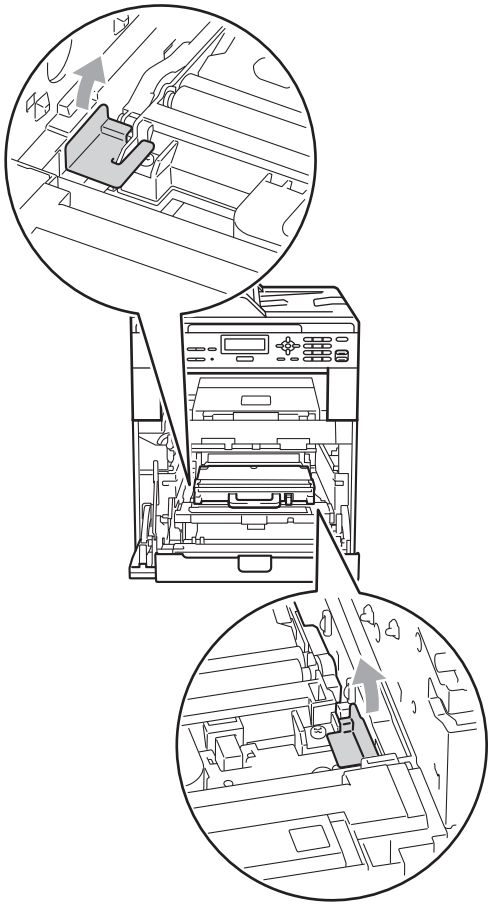


IMPORTANT

To avoid print quality problems, DO NOT touch the shaded parts shown in the illustration.



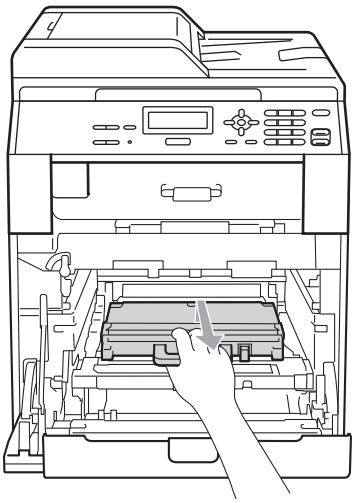
6 Remove two pieces of orange packing material and discard them.



Note

This step is only necessary when you are replacing the waste toner box for the first time, and are not required for the replacement waste toner box. The orange packing pieces are installed at the factory to protect your machine during shipment.

7 Hold the green handle of the waste toner box and remove the waste toner box from the machine.



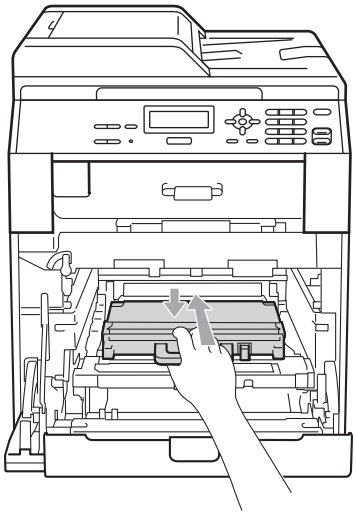
⚠ CAUTION

Handle the waste toner box carefully in case you accidentally spill or scatter toner. If toner scatters on your hands or clothes, wipe or wash it off with cold water at once.

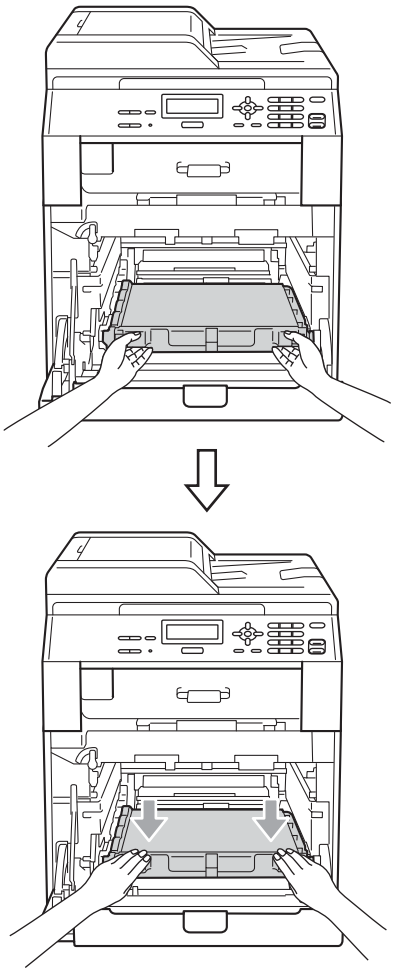
Note

Discard the used waste toner box according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office.

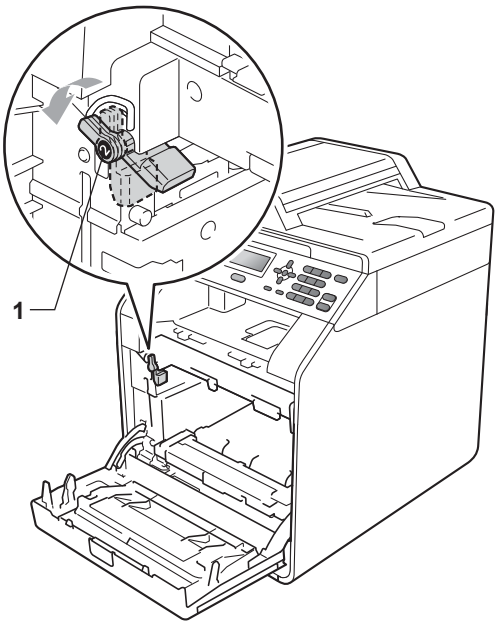
8 Unpack the new waste toner box and put the new waste toner box in the machine using the green handle. Make sure the waste toner box is level and fits firmly into place.



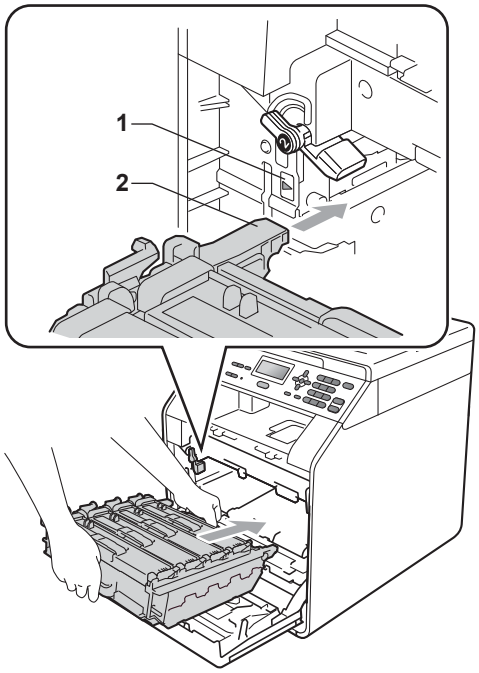
9 Put the belt unit back into the machine. Make sure the belt unit is level and fits firmly into place.



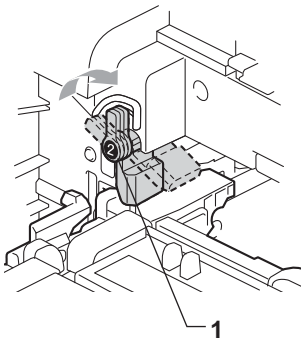
10 Make sure the green lock lever (1) is in the release position as shown in the illustration.



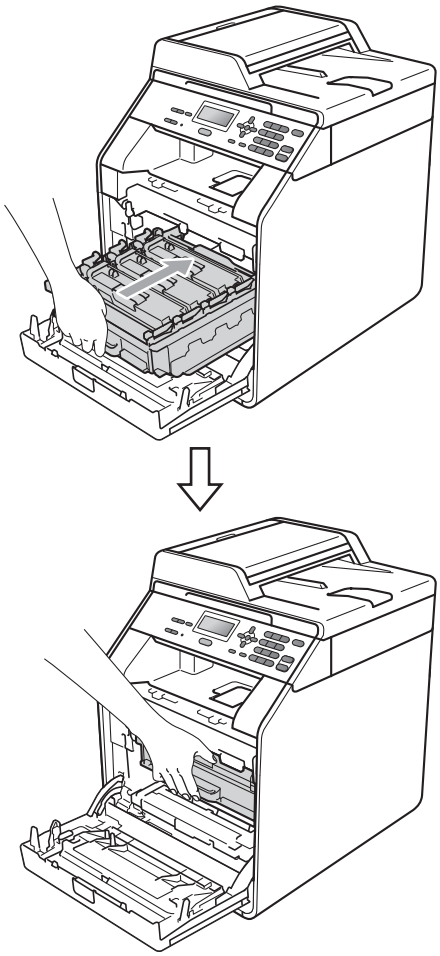
11 Match the guide ends (2) of the drum unit to the ▶ marks (1) on both sides of the machine, then gently slide the drum unit into the machine until it stops at the green lock lever.



12 Turn the green lock lever (1) clockwise to the lock position.



13 Push the drum unit in until it stops.



14 Close the front cover of the machine.

A

Cleaning and Checking the machine

Clean the outside and inside of the machine regularly with a dry, lint-free cloth. When you replace the toner cartridge or the drum unit, make sure that you clean the inside of the machine. If printed pages are stained with toner, clean the inside of the machine with a dry, lint-free cloth.

WARNING

DO NOT use any flammable substances, spray or organic solvent/liquids containing alcohol/ammonia to clean the inside or outside of the machine. Doing this may cause a fire or electrical shock.

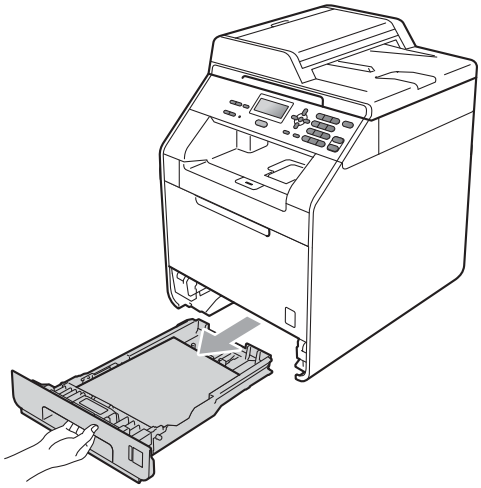
Be careful not to inhale toner.

IMPORTANT

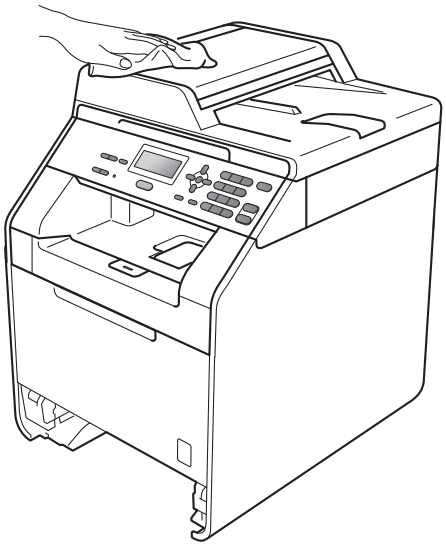
Use neutral detergents. Cleaning with volatile liquids such as thinner or benzine will damage the surface of the machine.

Cleaning the outside of the machine

1. Turn off the machine. Disconnect all cables, and then unplug the power cord from the electrical socket.
2. Pull the paper tray completely out of the machine.

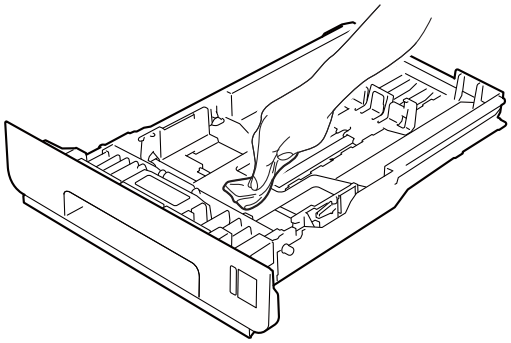


3. Wipe the outside of the machine with a dry, lint-free soft cloth to remove dust.



4. Remove any paper that is in the paper tray.

5 Wipe the inside and the outside of the paper tray with a dry, lint-free soft cloth to remove dust.



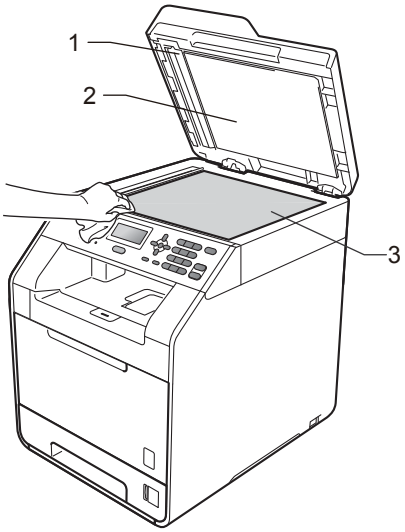
6 Re-load the paper and put the paper tray firmly back in the machine.

7 Plug the machine's power cord back into the electrical socket first, and connect all cables. Turn on the machine.

Cleaning the scanner glass

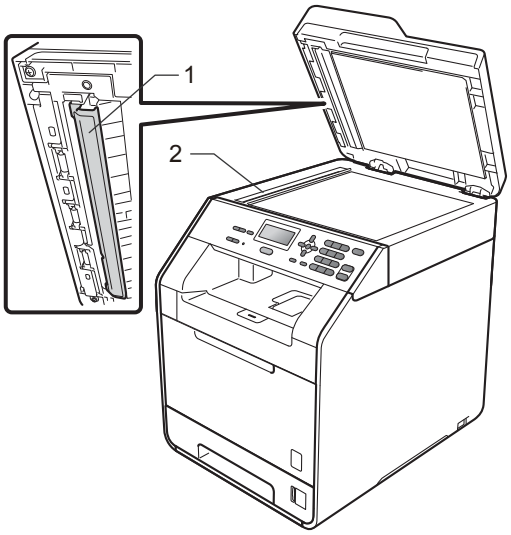
1 Turn off the machine. Disconnect all cables, and then unplug the power cord from the electrical socket.

2 Lift the document cover (1).
Clean the white plastic surface (2) and scanner glass (3) underneath it with a soft lint-free cloth moistened with water.



A

3 In the ADF unit, clean the white bar (1) and the scanner glass strip (2) underneath it with a soft lint-free cloth moistened with water.



Note

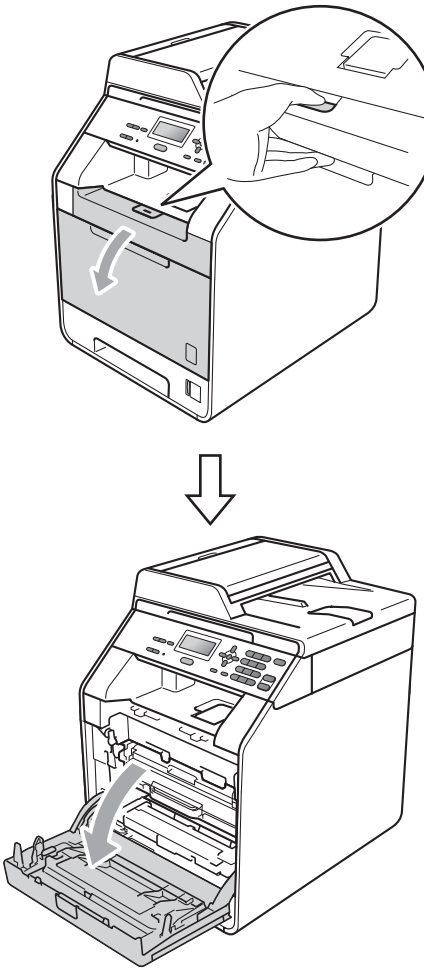
In addition to cleaning the scanner glass and glass strip with a soft lint-free cloth moistened with water, run your finger tip over the glass to see if you can feel anything on it. If you feel dirt or debris, clean the glass again concentrating on that area. You may need to repeat the cleaning process three or four times. To test, make a copy after each cleaning.

4 Plug the machine's power cord back into the electrical socket first, and connect all cables. Turn on the machine.

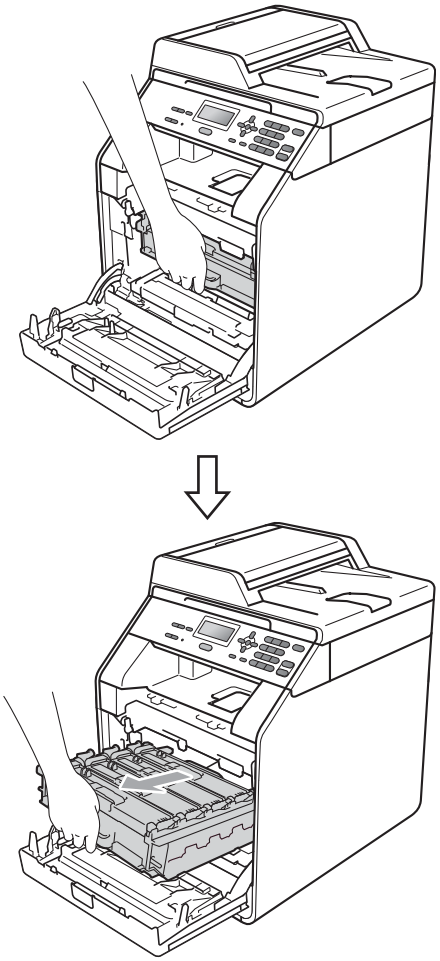
Cleaning the laser scanner windows

1 Turn off the machine. Disconnect all cables, and then unplug the power cord from the electrical socket.

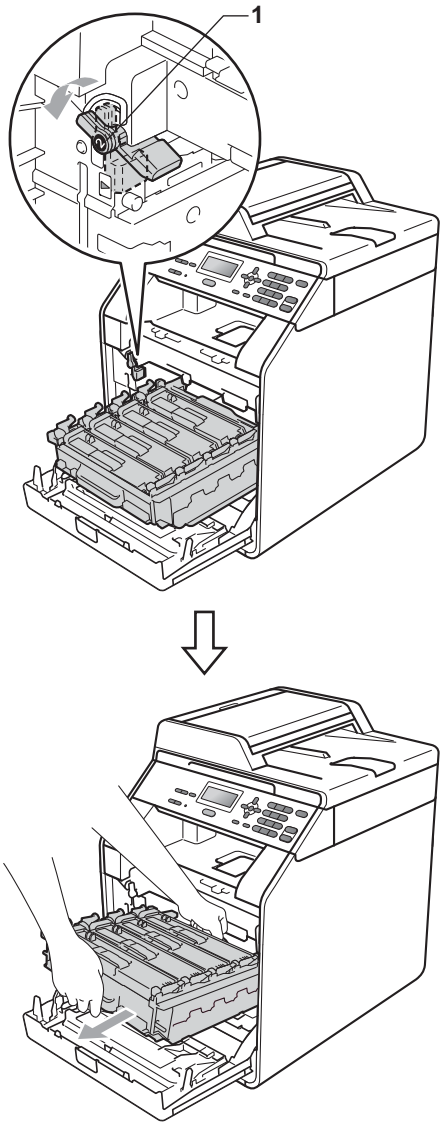
2 Press the front cover release button and then open the front cover.



3 Hold the green handle of the drum unit. Pull the drum unit out until it stops.

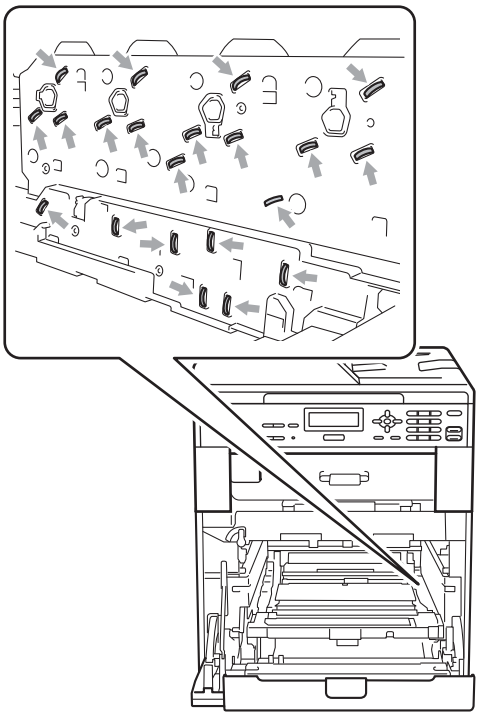


4 Turn the green lock lever (1) at the left of the machine anticlockwise to the release position. Holding the green handles of the drum unit, lift the front of the drum unit and remove it from the machine.



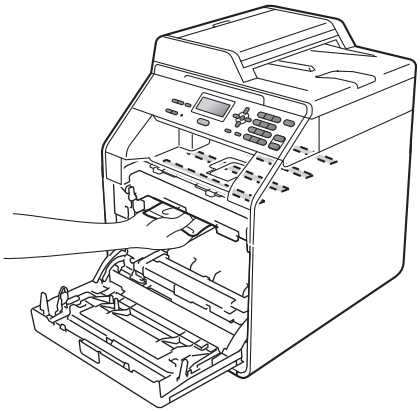
IMPORTANT

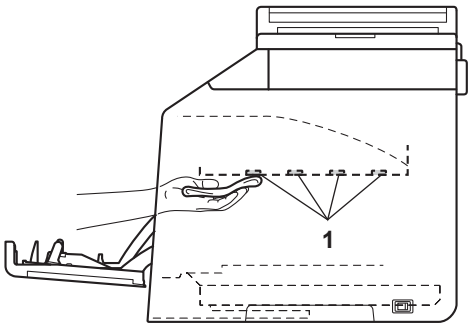
- We recommend that you place the drum unit and/or the toner cartridge on a clean, flat surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- To prevent damage to the machine from static electricity, DO NOT touch the electrodes shown in the illustration.



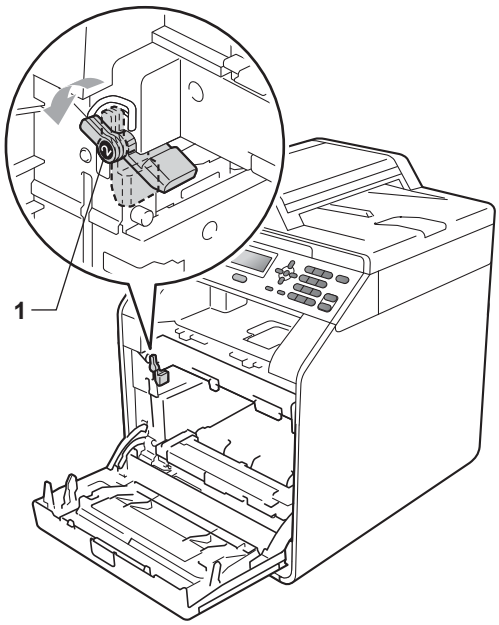
- Hold the green handles of the drum unit when you carry it. DO NOT hold the side of the drum unit.

5 Wipe the four scanner windows (1) with a dry, lint-free cloth.

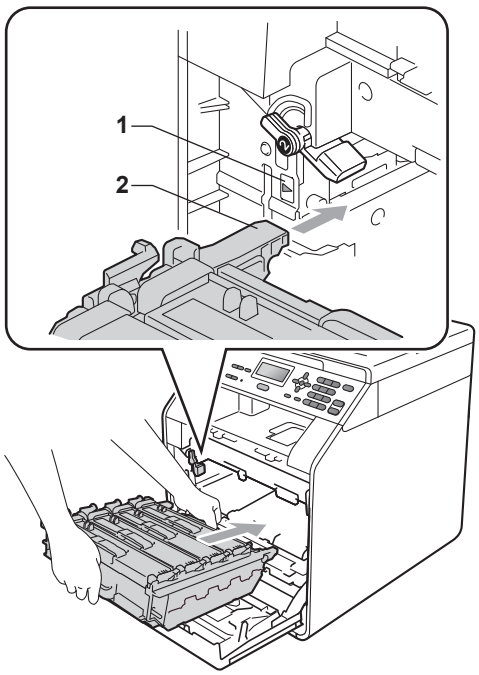




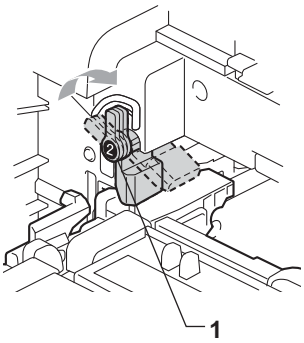
6 Make sure the green lock lever (1) is in the release position as shown in the illustration.



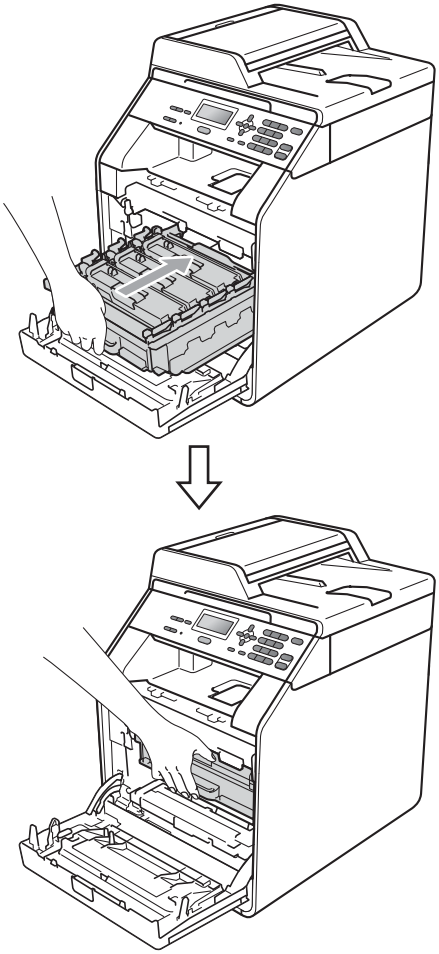
7 Match the guide ends (2) of the drum unit to the ▶ marks (1) on both sides of the machine, then gently slide the drum unit into the machine until it stops at the green lock lever.



8 Turn the green lock lever (1) clockwise to the lock position.



9 Push the drum unit in until it stops.



10 Close the front cover of the machine.

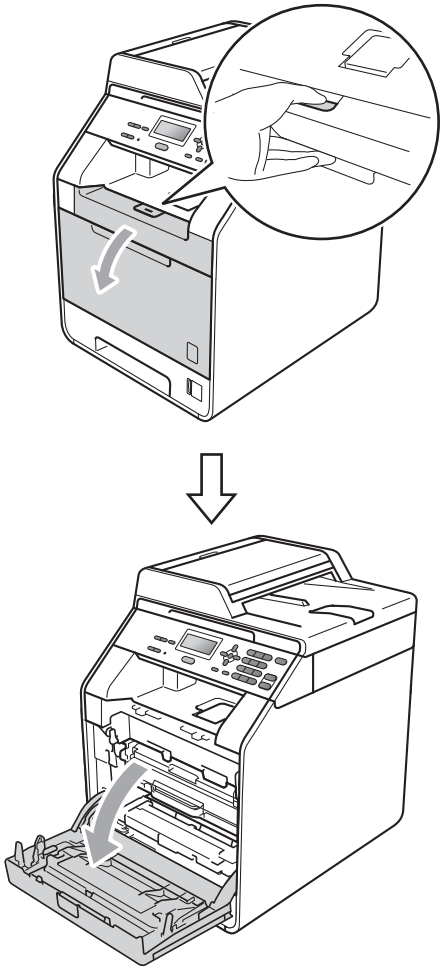
11 Plug the machine's power cord back into the electrical socket first, and connect all cables. Turn on the machine.

A

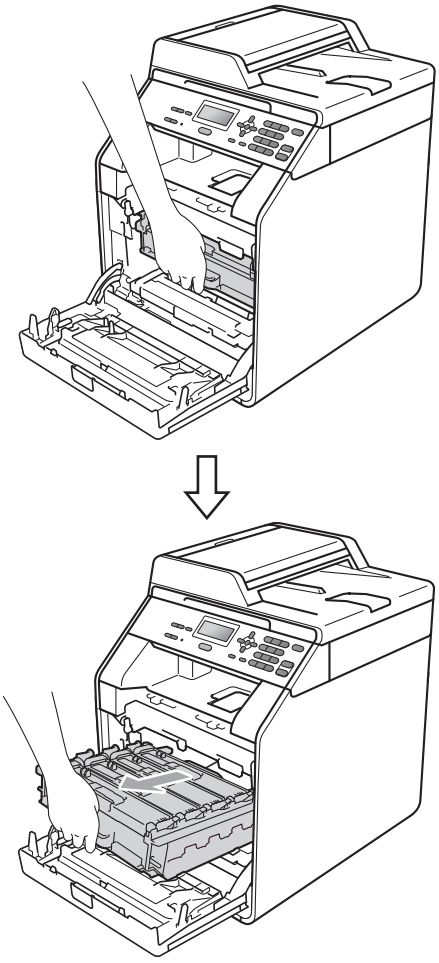
Cleaning the corona wires

If you have print quality problems, clean the four corona wires as follows:

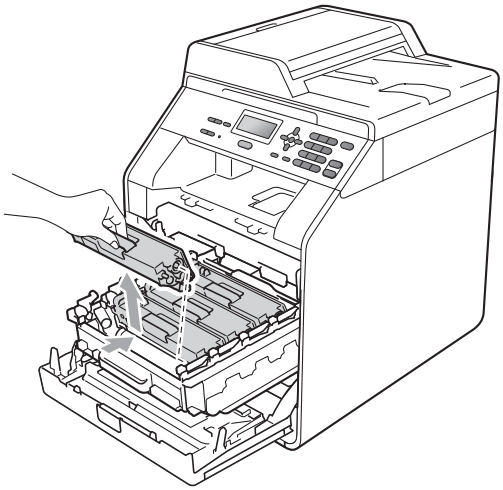
1. Press the front cover release button and then open the front cover.



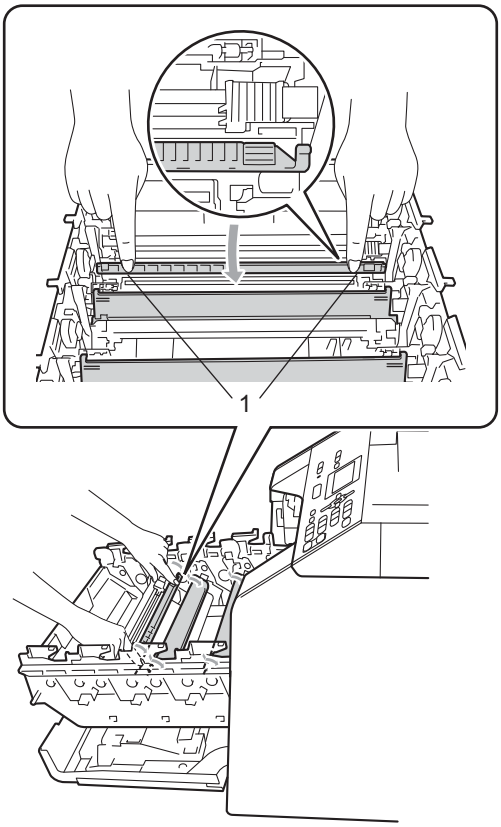
2. Hold the green handle of the drum unit. Pull the drum unit out until it stops.



3 Hold the handle of the toner cartridge and slightly push it toward the machine to unlock it. Then pull it out of the drum unit. Repeat this for all the toner cartridges.

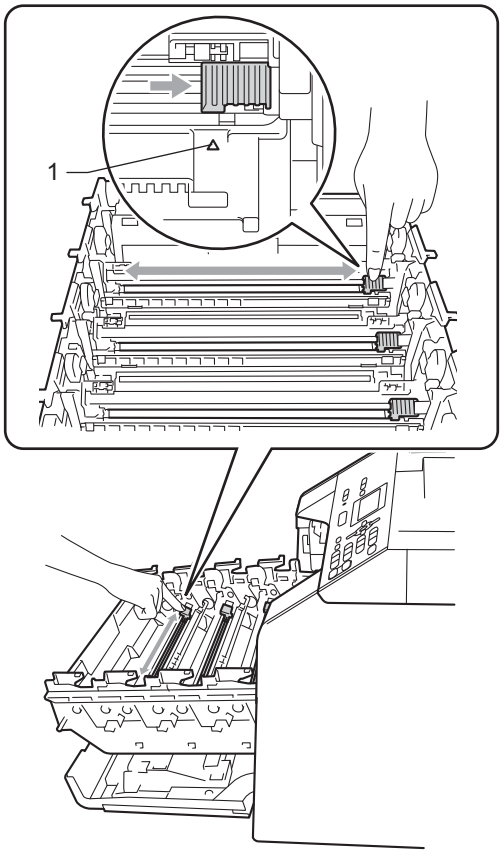


4 Push to release the latches of the corona wire cover (1), and then open the cover.



A

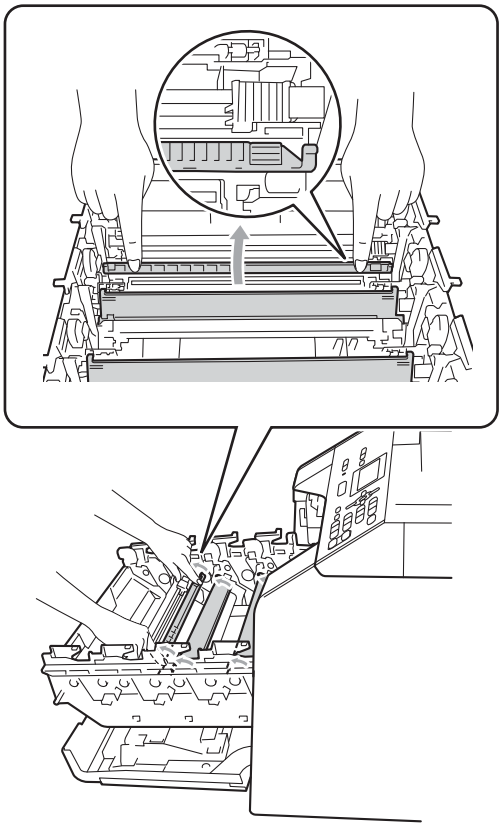
5 Clean the corona wire inside the drum unit by gently sliding the green tab from left to right and right to left several times.



Note

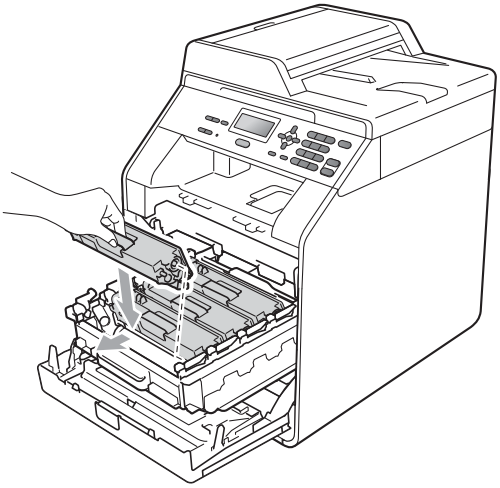
Be sure to return the tab to the home position (▲) (1). If you do not, printed pages may have a vertical stripe.

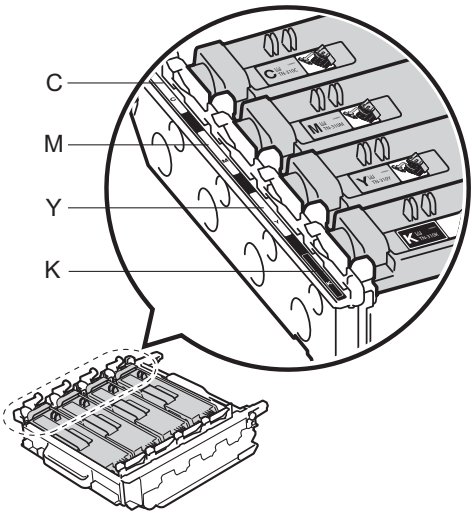
6 Close the corona wire cover.



7 Repeat steps ❹ to ❻ to clean each of three remaining corona wires.

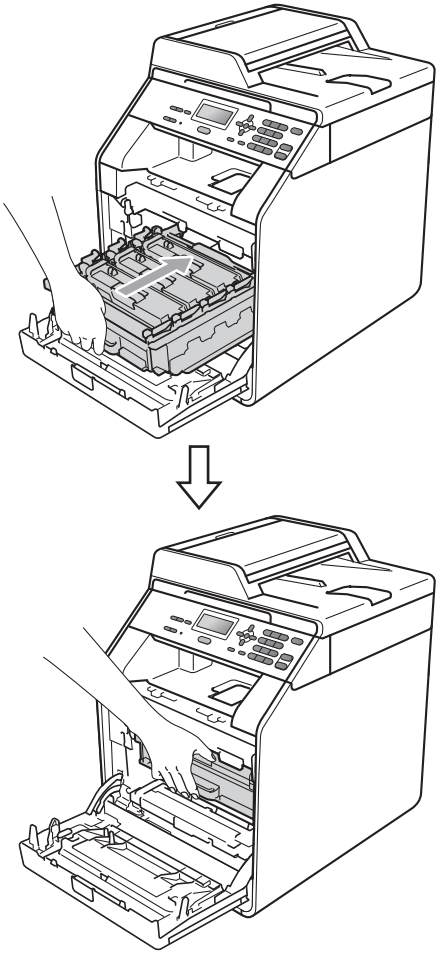
8 Hold the handle of the toner cartridge and slide the toner cartridge into the drum unit then slightly pull it toward you until you hear it click into place. Make sure that you match the toner cartridge colour to the same colour label on the drum unit. Repeat this for all the toner cartridges.





C - Cyan M - Magenta
Y - Yellow K - Black

9 Push the drum unit in until it stops.



10 Close the front cover of the machine.

A

Cleaning the drum unit

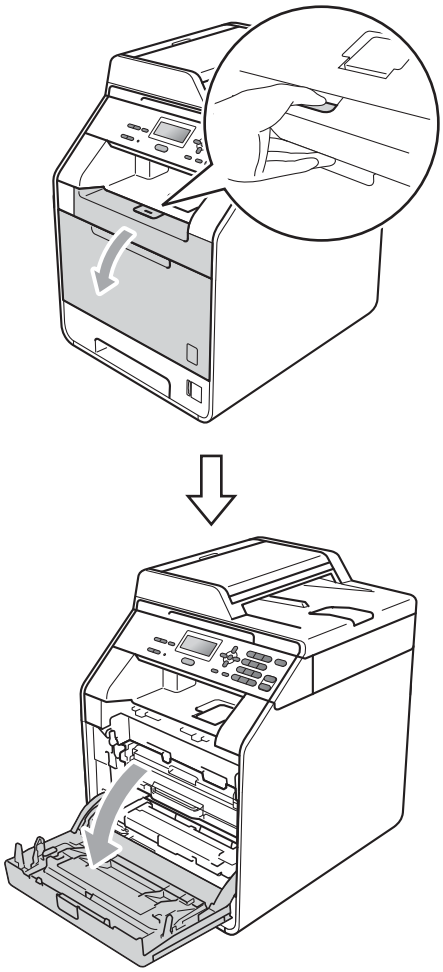
If your printout has coloured dots at 94 mm intervals the drum may have something stuck to the drum surface, such as glue from a label. Follow the steps below to solve the problem.

1. Make sure that the machine is in the Ready mode. Press **Menu**, **5**, **6**, then press **Mono Start** or **Colour Start** to print the drum dot check sheet.

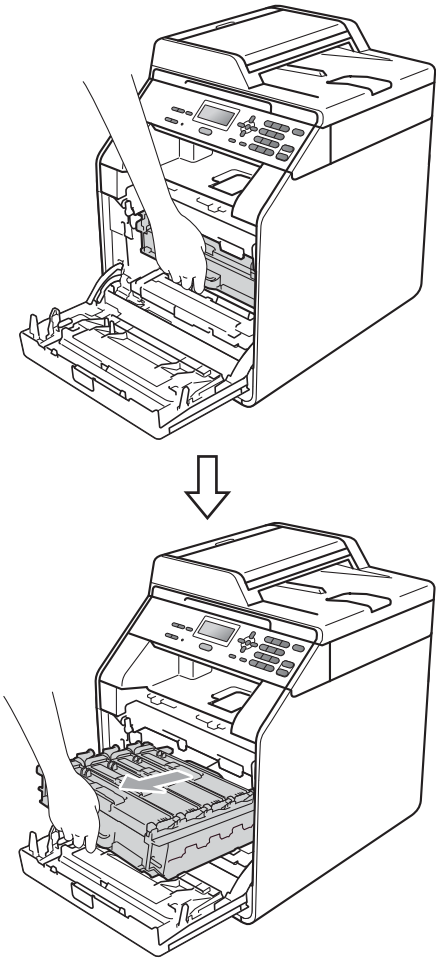
```
56.Drum Dot Print

Printing
```

2. Turn off the machine. Disconnect all cables, and then unplug the power cord from the electrical socket.

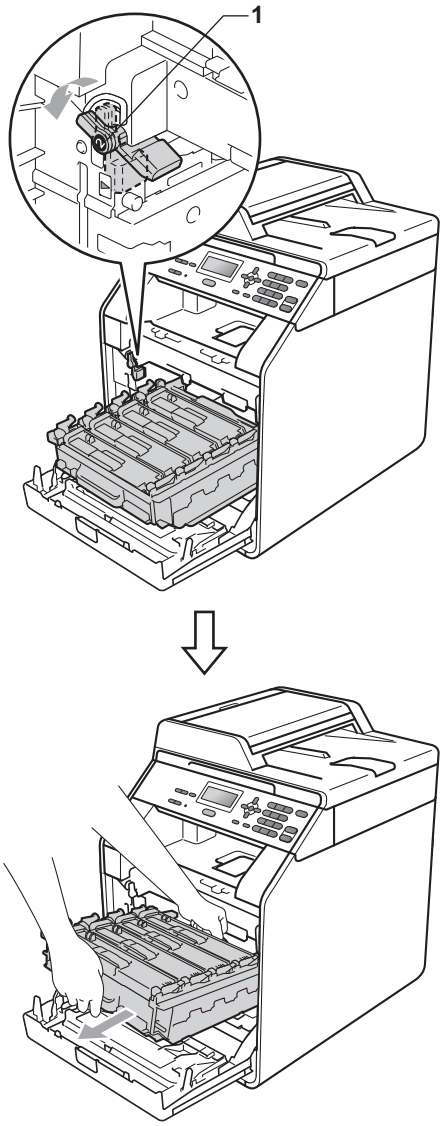
3. Press the front cover release button and then open the front cover.



4 Hold the green handle of the drum unit. Pull the drum unit out until it stops.

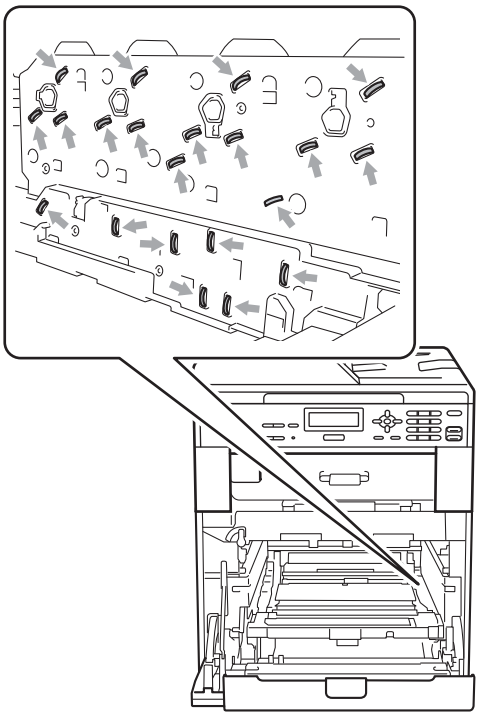


5 Turn the green lock lever (1) at the left of the machine anticlockwise to the release position. Holding the green handles of the drum unit, lift the front of the drum unit and remove it from the machine.



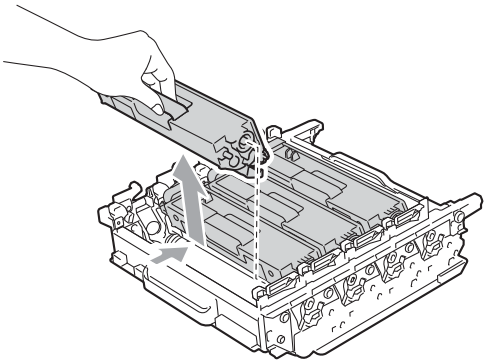
IMPORTANT

- We recommend that you place the drum unit and/or the toner cartridge on a clean, flat surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- To prevent damage to the machine from static electricity, DO NOT touch the electrodes shown in the illustration.



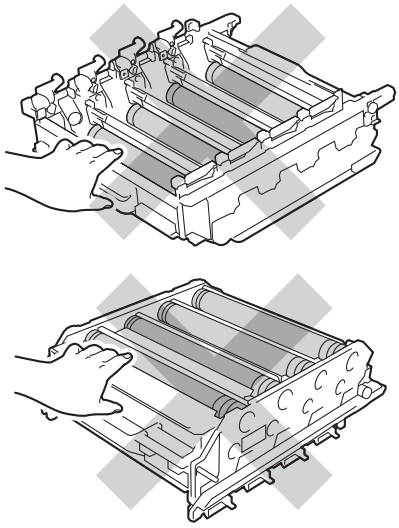
- Hold the green handles of the drum unit when you carry it. DO NOT hold the side of the drum unit.

6 Hold the handle of the toner cartridge and slightly push it to unlock it. Then pull it out of the drum unit. Repeat this for all the toner cartridges.

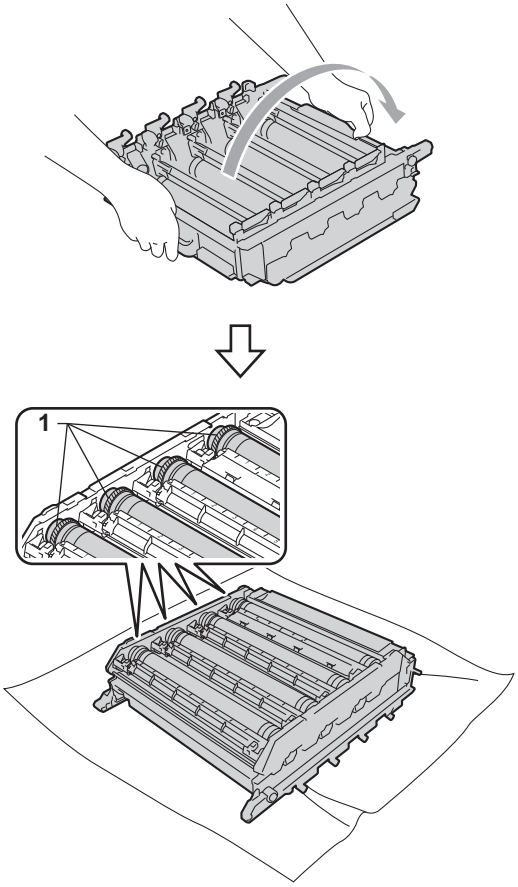


IMPORTANT

To avoid print quality problems, DO NOT touch the shaded parts shown in the illustrations.



7 Turn the drum unit over by holding the green handles. Make sure that the drum unit gears (1) are on the left hand side.



8 Note the following information from the drum dot check sheet:

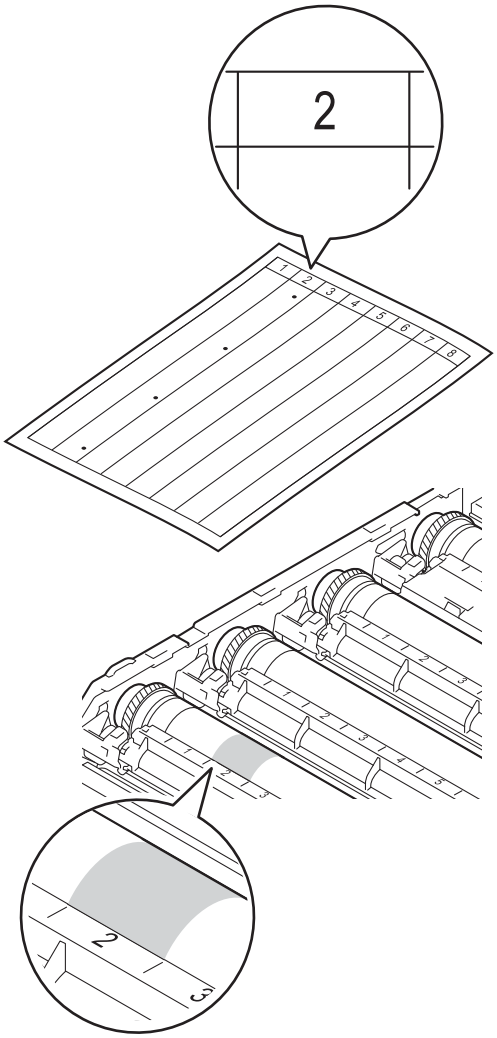
- Dot colour

  For example, a mark on the cyan drum would produce a cyan dot on the check sheet.

- Dot location

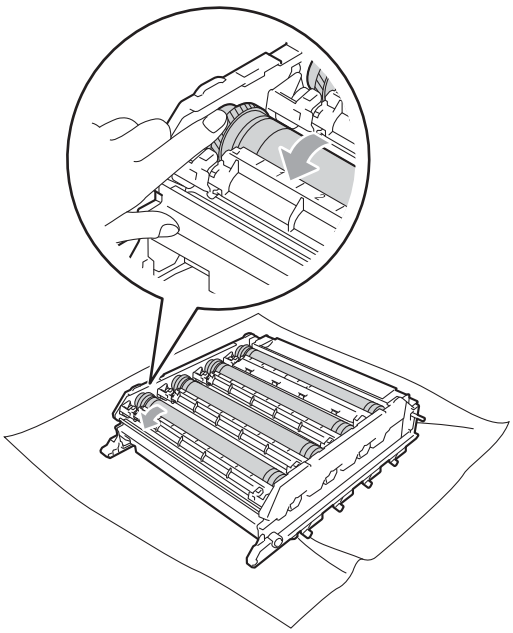
  Note which of the printed columns the dot appears in.

9 On the problem colour drum, use the numbered markers next to the drum roller to find the mark. For example, a cyan dot in column 2 on the check sheet would mean that there is a mark on the cyan drum in the "2" region.

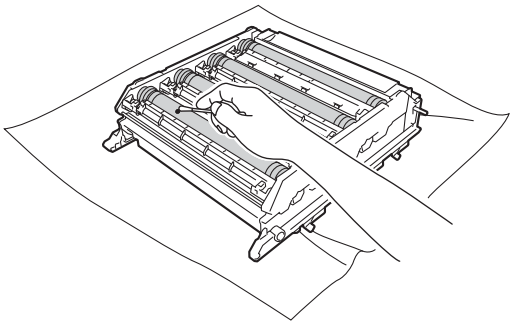


A

10 Turn the drum unit gear toward you by hand while looking at the surface of the suspected area.



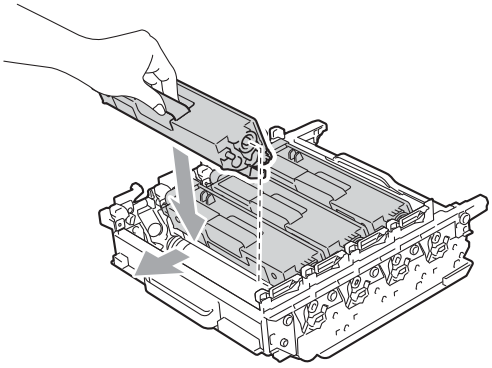
11 When you have found the mark on the drum that matches the drum dot check sheet, wipe the surface of the drum gently with a cotton swab until the dust or paper powder on the surface comes off.

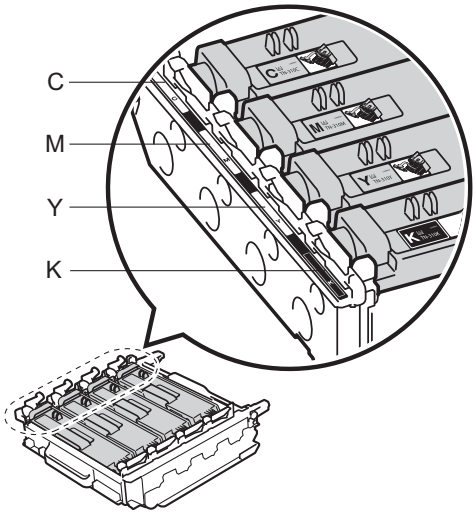


IMPORTANT

DO NOT clean the surface of the photosensitive drum with a sharp object.

12 Hold the handle of the toner cartridge and slide the toner cartridge into the drum unit then slightly pull it toward you until you hear it click into place. Make sure that you match the toner cartridge colour to the same colour label on the drum unit. Repeat this for all the toner cartridges.

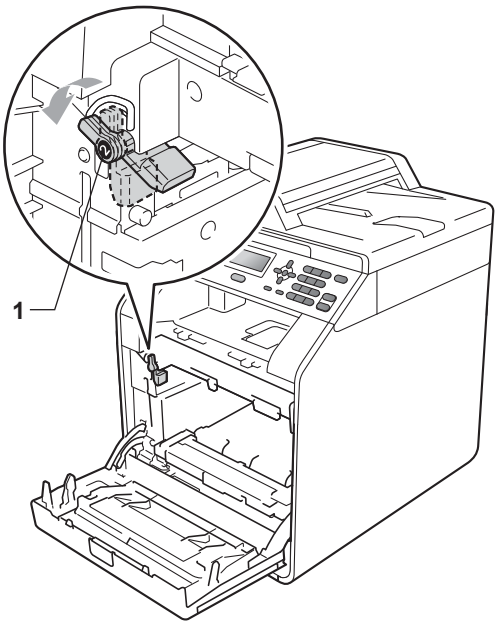




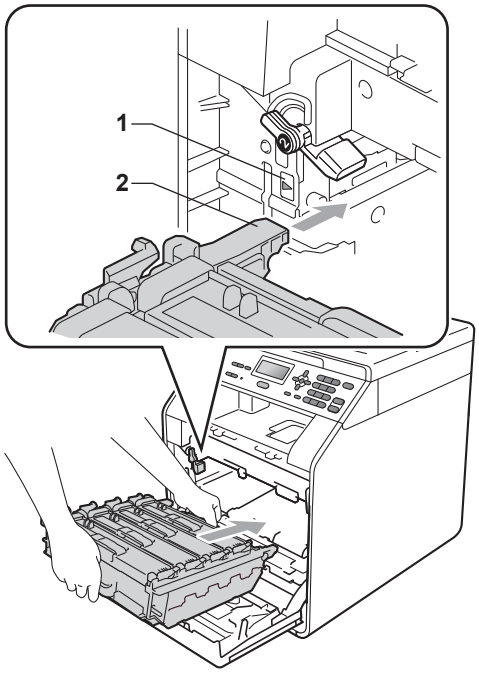
C - Cyan M - Magenta

Y - Yellow K - Black

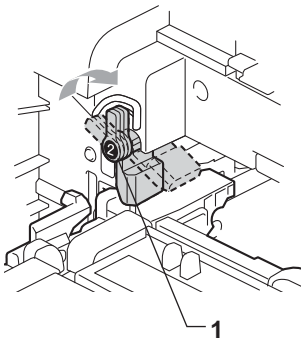
13 Make sure the green lock lever (1) is in the release position as shown in the illustration.



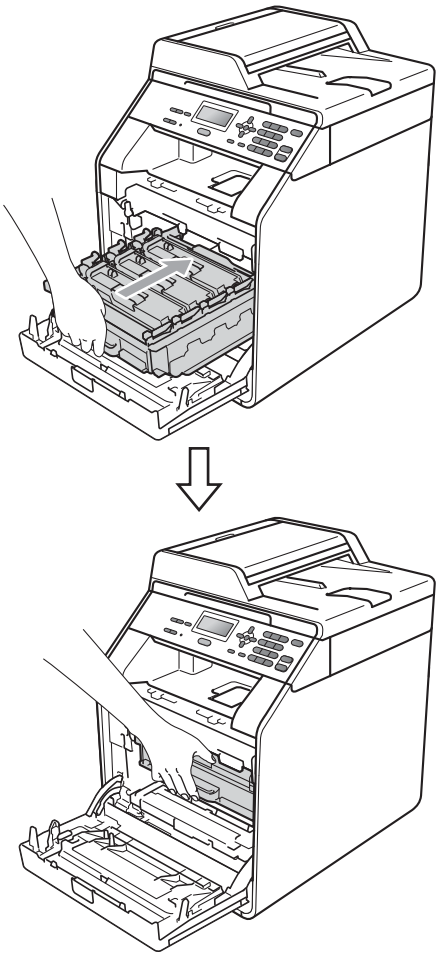
14 Match the guide ends (2) of the drum unit to the ▶ marks (1) on both sides of the machine, then gently slide the drum unit into the machine until it stops at the green lock lever.



15 Turn the green lock lever (1) clockwise to the lock position.



16 Push the drum unit in until it stops.



17 Close the front cover of the machine.

A

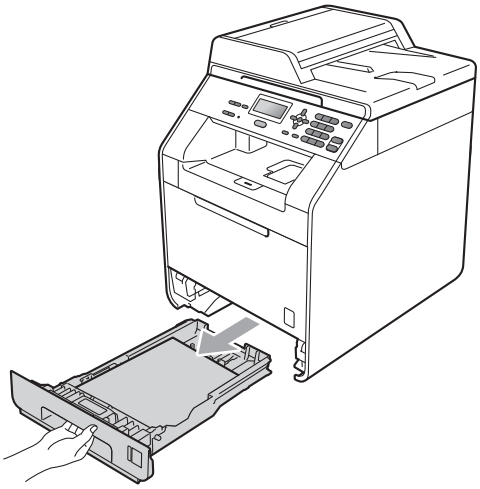
18 Plug the machine's power cord back into the electrical socket first, and connect all cables. Turn on the machine.

Cleaning the paper pick-up rollers

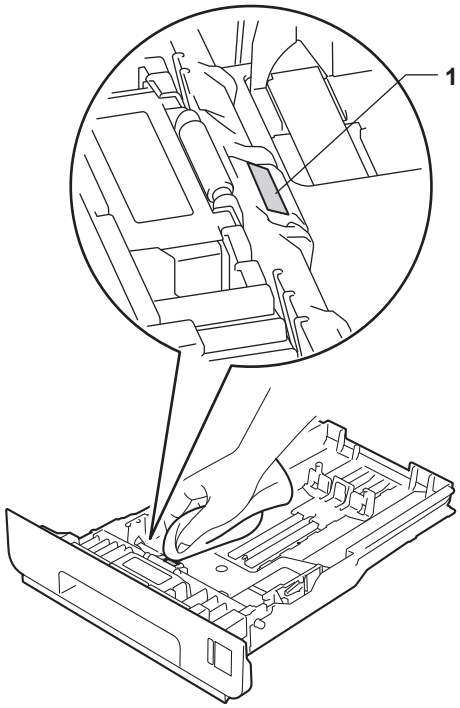
If you have paper feed problems, clean the pick-up rollers as follows:

1 Turn off the machine. Unplug the power cord from the electrical socket.

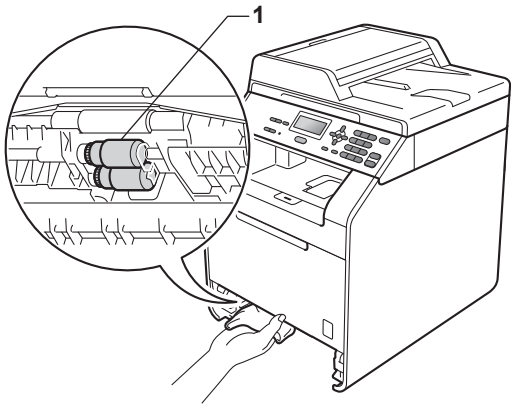
2 Pull the paper tray completely out of the machine.



3 Tightly wring out a lint-free cloth soaked in lukewarm water, and then wipe the separator pad (1) of the paper tray with it to remove dust.



4 Wipe the two pick-up rollers (1) inside the machine to remove dust.



5 Put the paper tray back in the machine.

6 Plug the machine's power cord back into the electrical socket. Turn on the machine.

Calibration

The output density for each colour may vary depending on the environment the machine is in such as temperature and humidity. Calibration helps you to improve the colour density.

1 Press **Menu**, **3**, **6**.

2 Press ▲ or ▼ to select `Calibrate`.

3 Press **OK**.

4 Press **1** to select `Yes`.

5 Press **Stop/Exit**.

You can reset the calibration parameters back to those set at the factory.

1 Press **Menu**, **3**, **6**.

2 Press ▲ or ▼ to `Reset`.

3 Press **OK**.

4 Press **1** to select `Yes`.

5 Press **Stop/Exit**.

A

Note

- If an error message is displayed, press **Stop/Exit** and try again. (For more information, see *Error and maintenance messages* on page 80.)
- If you print using the Windows® printer driver, the driver will get the calibration data automatically if both **Use Calibration Data** and **Get device data automatically** are on. The default settings are on. (See *Advanced tab* in the *Software User's Guide*.)
- If you print using the Macintosh printer driver, you need to perform the calibration using the **Status Monitor**. After turning the **Status Monitor** on, choose **Color Calibration** from the **Control** menu. (See *Status Monitor* in the *Software User's Guide*. When the **StatusMonitor** is open, choose **Control / Color Calibration** from the menu bar.)

Auto Registration

Registration

If solid areas of colour or images have cyan, magenta or yellow fringes, you can use the auto-registration feature to correct the problem.

1. Press **Menu**, **3**, **7**.
2. To start, press **1**.
   To exit, press **2**.
3. Press **Stop/Exit**.

Manual Registration

If colour still appears incorrectly after auto-registration, you will need to perform manual registration.

1. Press **Menu**, **3**, **8**, **1**.
2. Press **Mono Start** or **Colour Start** to start printing the colour registration chart.
3. When the machine has finished printing the registration chart, press **2** (`Set Regist.`) to correct the colour manually.
4. Starting at **1** (`1 Magenta Left`) on the chart, check which coloured bar has the most uniform print density and enter its number into the machine using the ▲ and ▼ keys.
   Press **OK**.
   Repeat for **2** (`2 Cyan Left`), **3** (`3 Yellow Left`), **4**, **5**, **6** to **9**.
5. Press **Stop/Exit**.

Frequency (Colour Correction)

You can set how often the colour correction (Colour Calibration and Auto Registration) occurs. The default setting is Normal. The colour correction process consumes some amount of the toner.

1. Press **Menu**, **3**, **9**.
2. Press ▲ or ▼ to choose `Normal`, `Low` or `Off`.
   Press **OK**.
3. Press **Stop/Exit**.

B Troubleshooting

Error and maintenance messages

As with any sophisticated office product, errors may occur and consumable items may need to be replaced. If this happens, your machine identifies the error or required routine maintenance and shows the appropriate message. The most common error and maintenance messages are shown below.

You can clear most errors and perform routine maintenance messages by yourself. If you need more help, the Brother Solutions Center offers the latest FAQs and troubleshooting tips:

Visit us at http://solutions.brother.com/.

Error Message	Cause	Action
Access Denied	The function you want to use is restricted by Secure Function Lock.	Contact your administrator to check your Secure Function Lock Settings.
Calibrate	Calibration failed.	Press **Mono Start** or **Colour Start** and try it again. ■ Turn off the machine. Wait a few seconds, then turn it on again. ■ Put in a new drum unit. (See *Replacing the drum unit* on page 42.) ■ Put in a new belt unit. (See *Replacing the belt unit* on page 48.) ■ Put in a new waste toner box. (See *Replacing the waste toner box* on page 53.) ■ If the problem continues, call your Brother dealer.
Cartridge Error [1] Put the Black (K) Toner Cartridge back in. [1] The toner cartridge colour with the problem is shown in the message.	The toner cartridge is not installed correctly.	Pull out the drum unit and remove the toner cartridge for the colour that is indicated on the LCD, then re-install toner cartridge in the drum unit. Put the drum unit back into the machine again.
Condensation	One of the issues that can cause this error is that condensation may form inside the machine after a room temperature change.	Leave switched ON. Fully open the front cover. Wait 30 minutes, switch OFF and close cover, then switch ON. If this does not clear the error, call your Brother dealer.

Error Message	Cause	Action
Cooling Down Wait for a while	The temperature of the drum unit or toner cartridge is too hot. The machine will pause its current print job and go into cooling down mode. During the cooling down mode, you will hear the cooling fan running while the LCD shows Cooling Down, and Wait for a while.	Make sure that you can hear the fan in the machine spinning and that the exhaust outlet is not blocked by something. If the fan is spinning, remove any obstacles that surround the exhaust outlet, and then leave the machine turned on but do not use it for several minutes. If the fan is not spinning, disconnect the machine from the power for several minutes, then reconnect it.
Cover is Open	The front cover is not completely closed.	Close the front cover of the machine.
Cover is Open	The ADF cover is not completely closed.	Close the ADF cover of the machine.
	The ADF is open while loading a document.	Close the ADF cover of the machine, then press **Stop/Exit**.
Cover is Open	The fuser cover is not completely closed or paper was jammed in the back of the machine when you turned on the power.	■ Close the fuser cover of the machine. ■ Make sure paper is not jammed inside the back of the machine, and then close the fuser cover and press **Mono Start** or **Colour Start**.
DIMM Error	■ The DIMM is not installed correctly. ■ The DIMM is broken. ■ The DIMM does not meet the required specifications.	■ Turn off the machine and remove the DIMM. ■ Confirm the DIMM meets the required specifications. (See *Memory board* in *Appendix B* of the *Advanced User's Guide*.) ■ Re-install the DIMM correctly. Wait a few seconds, and then turn it on again. ■ If this error message appears again, replace the DIMM with a new one. (See *Installing extra memory* in *Appendix B* of the *Advanced User's Guide*.)
Document Jam	The document was not inserted or fed correctly, or the document scanned from the ADF was too long.	See *Document is jammed in the top of the ADF unit* on page 86 or *Using the automatic document feeder (ADF)* on page 25.
Drum Error	The corona wire on the drum unit needs to be cleaned.	Clean the corona wire on the drum unit. (See *Cleaning the corona wires* on page 66.)
Drum Stop	It is time to replace the drum unit.	Replace the drum unit. (See *Replacing the drum unit* on page 42.)

Error Message	Cause	Action
Duplex Disabled Close the Back Cover of the machine.	The back of the machine is not closed completely.	Close the back cover of the machine.
Duplex Disabled Reload paper, then press Start.	Although the size of paper in the paper tray matches the paper size that was selected from the control panel or printer driver, the machine has stopped printing when it encountered an additional, different size of paper in the tray.	Make sure the paper tray contains only the size of paper you select in either the control panel or printer driver, then press **Mono Start** or **Colour Start**.
	The paper tray was pulled out before the machine completed printing on both sides of the paper.	Re-install the paper tray and press **Mono Start** or **Colour Start**.
EL Error	The machine has a mechanical problem.	Open the front cover and close it again.
Fuser Error	The temperature of the fuser unit does not rise to a specified temperature within the specified time.	Turn the power switch off, wait a few seconds, and then turn it on again. Leave the machine for 15 minutes with the power on.
	The fuser unit is too hot.	
Init Unable XX	The machine has a mechanical problem.	■ Turn the power switch off, and then turn it on again. ■ If the problem continues, call your Brother dealer.
Jam Duplex	The paper is jammed underneath Paper Tray 1.	(See *Paper is jammed underneath paper tray 1* on page 96.)
Jam Inside	The paper is jammed inside the machine.	(See *Paper is jammed inside the machine* on page 92.)
Jam MP Tray	The paper is jammed in the MP tray of the machine.	(See *Paper is jammed in the MP tray* on page 88.)
Jam Rear	The paper is jammed in the back of the machine.	(See *Paper is jammed at the back of the machine* on page 90.)
Jam Tray 1 Jam Tray 2	The paper is jammed in the paper tray of the machine.	(See *Paper is jammed in the Paper Tray 1 or Tray 2* on page 89.)
Limit Exceeded	The printing limit set by Secure Function Lock 2.0 was reached.	Contact your administrator to check your Secure Function Lock Settings.
Low Temperature	The room temperature is too low for the machine to operate.	Increase the room temperature to allow the machine to operate.
No Belt Unit	The belt unit is not installed correctly.	Re-install the belt unit. (See *Replacing the belt unit* on page 48.)

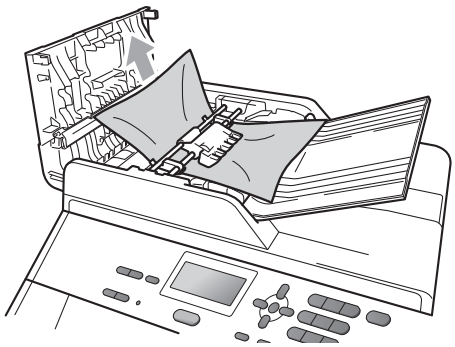
Error Message	Cause	Action
No Paper	The machine is out of paper or paper is not correctly loaded in the paper tray.	Do one of the following: ■ Refill the paper in the paper tray. ■ Remove the paper and load it again. ■ If the problem is not resolved, the paper pick-up roller may need to be cleaned. Clean the paper pick-up roller. (See *Cleaning the paper pick-up rollers* on page 76.)
No Permission	You have attempted to print in colour using a Secure Function Lock ID that is restricted to mono printing only. The print job will be cancelled.	Contact your administrator to check your Secure Function Lock Settings.
No Toner	The toner cartridge for the colour indicated on the LCD is not installed correctly.	Pull out the drum unit. Take out the toner cartridge for the colour indicated on the LCD, and then put it back into the drum unit.
No Tray	The paper tray indicated on the LCD is not installed properly.	Re-install the paper tray that is indicated on the LCD.
No Waste Toner	The waste toner box is not installed properly.	Re-install the waste toner box. (See *Replacing the waste toner box* on page 53.)
Not Available	The attempted function is restricted by Secure Function Lock 2.0.	Contact your administrator to check your Secure Function Lock Settings.
Out of Memory	The machine's memory is full.	Do one of the following: ■ Press **Mono Start** or **Colour Start** to copy the scanned pages. (Copy operation in progress) ■ Press **Stop/Exit** and wait until the other operations in progress finish, and then try again. ■ Reduce print resolution. (See *Advanced tab* in the *Software User's Guide*.) ■ Add optional memory. (See *Memory board* in *Appendix B* of the *Advanced User's Guide*.)
Print Unable XX	The machine has a mechanical problem.	Do one of the following: ■ Turn the power switch off, wait a few minutes, and then turn it on again. ■ If the problem continues, call your Brother dealer.

Error Message	Cause	Action
Registration	Registration failed.	Press **Mono Start** or **Colour Start** and try again. Do one of the following: ■ Turn off the machine's power switch. Wait a few seconds, then turn it on again. ■ Try Manual Registration, **Menu**, **3**, **8**. (See *Manual Registration* on page 78.) ■ Put in a new belt unit. (See *Replacing the belt unit* on page 48.) ■ If the problem continues, call your Brother dealer.
Replace Parts Belt Unit	It is time to replace the belt unit.	Replace the belt unit. (See *Replacing the belt unit* on page 48.)
Replace Parts Drum	It is time to replace the drum unit.	Replace the drum unit. (See *Replacing the drum unit* on page 42.)
	The drum unit counter was not reset when a new drum was installed.	Reset the drum unit counter. (See *Resetting the drum counter* on page 47.)
Replace Parts Fuser Unit	It is time to replace the fuser unit.	Call your Brother dealer or a Brother Authorized Service Center to replace the fuser unit.
Replace Parts PF Kit 1 PF Kit 2 PF Kit MP	It is time to replace the paper feeding kit.	Call your Brother dealer or a Brother Authorized Service Center to replace the PF Kit.
Replace Toner	The toner cartridge is at the end of its life.	Replace the toner cartridge for the colour indicated on the LCD. (See *Replacing a Toner cartridge* on page 35.)
Replace WT Box	It is time to replace the waste toner box.	Replace the waste toner box. (See *Replacing the waste toner box* on page 53.)
Scan Unable XX	The machine has a mechanical problem.	■ Turn the power switch off and then turn it on again. ■ If the problem continues, call your Brother dealer.
Short paper	The length of the paper in the tray is too short for the machine to deliver it to the Face-down output tray.	Open the back cover to let the printed paper out on the back output tray. Remove the printed pages and then press **Mono Start** or **Colour Start**.
Size Error DX	The paper size defined in the printer driver is not usable for the automatic duplex printing.	Press **Mono Start** or **Colour Start**. Choose a paper size which is supported by the duplex tray. (See *Type and size of paper* on page 20.)
Size mismatch	The paper in the tray is not the correct size.	Load the correct size of paper in the tray and set the "Paper Size" (**Menu**, **1**, **1**, **2**). (See *Paper Size* on page 18.)

Error Message	Cause	Action
Small paper	The paper size specified in the printer driver is too small for the machine to deliver it to the Face-down output tray.	Open the back cover to let the printed paper out on the back output tray and then press **Mono Start** or **Colour Start**.
Toner Error	One or more toner cartridges are not installed correctly.	Pull out the drum unit. Take out all the toner cartridges, and then put them back into the drum unit.
Toner Low	The toner cartridge is near the end of its life.	Buy a new toner cartridge for the colour that is indicated on the LCD before you get a Replace Toner message.
WT Box End Soon	The waste toner box is near the end of its life.	Buy a new waste toner box before you get a Replace WT Box message.

Document is jammed in the top of the ADF unit

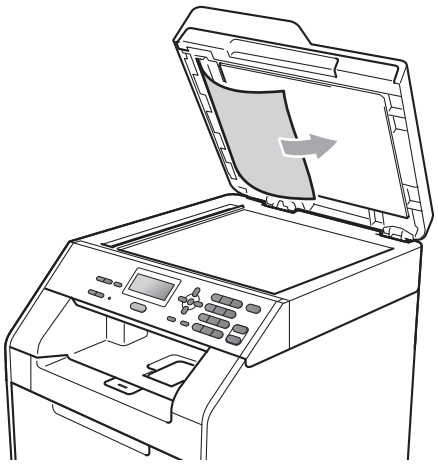
1. Take out any paper from the ADF that is not jammed.
2. Open the ADF cover.
3. Pull the jammed document out to the left.



4. Close the ADF cover.
5. Press **Stop/Exit**.

Document is jammed under the document cover

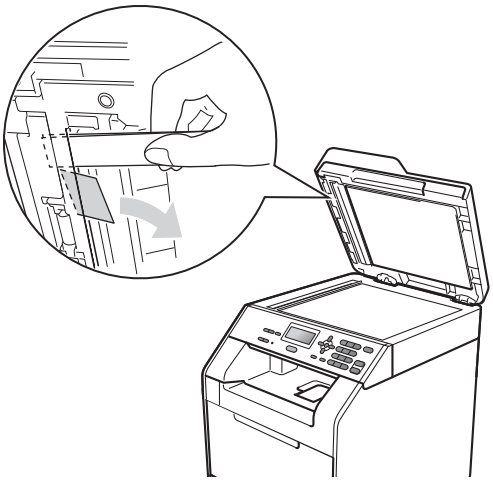
1. Take out any paper from the ADF that is not jammed.
2. Lift the document cover.
3. Pull the jammed document out to the right.



4. Close the document cover.
5. Press **Stop/Exit**.

Removing small documents jammed in the ADF

1. Lift the document cover.
2. Insert a piece of stiff paper, such as cardstock, into the ADF to push any small paper scraps through.



3. Close the document cover.
4. Press **Stop/Exit**.

Document is jammed at the output tray

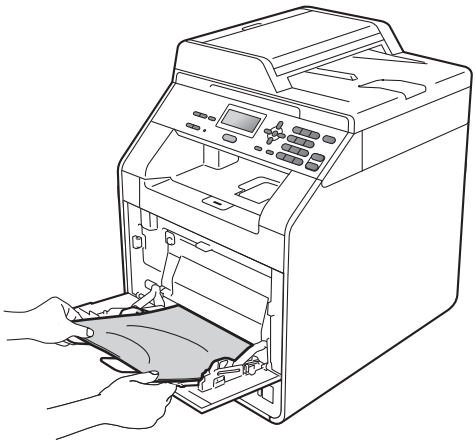
1. Take out any paper from the ADF that is not jammed.
2. Pull the jammed document out to the right.

3. Press **Stop/Exit**.

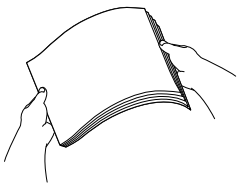
Paper is jammed in the MP tray

If the LCD shows `Jam MP Tray`, follow these steps:

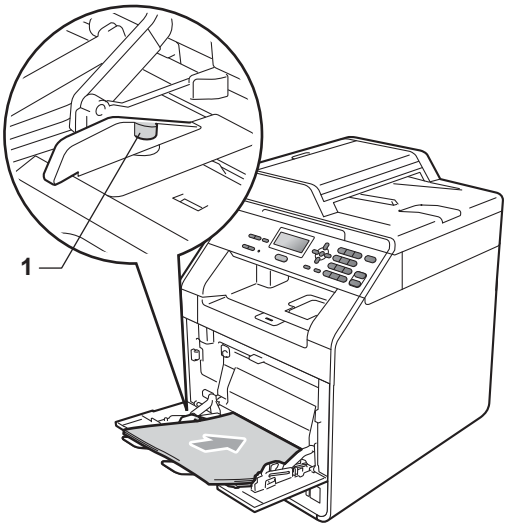
1. Remove the paper from the MP tray.
2. Remove any jammed paper from in and around the MP tray.



3. Fan the paper stack, and then put it back in the MP tray.



4. When loading paper in the MP tray, make sure that the paper stays under the maximum paper height guides (1) on both sides of the tray.

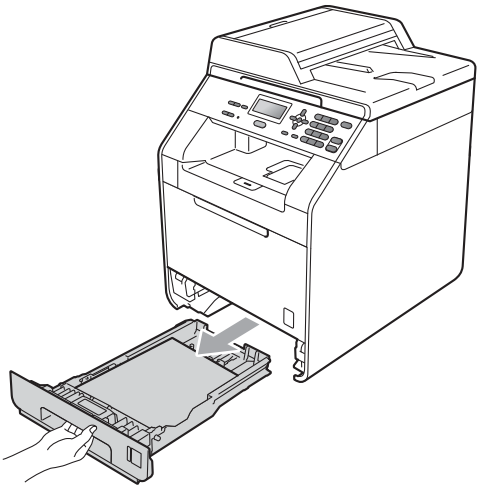


5. Press **Mono Start** or **Colour Start** to resume printing.

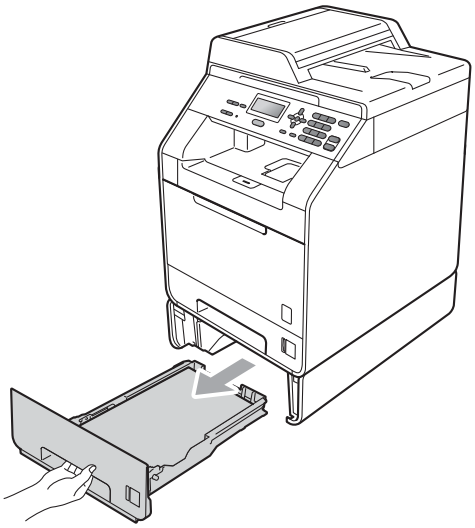
Paper is jammed in the Paper Tray 1 or Tray 2

If the LCD shows `Jam Tray 1` or `Jam Tray 2`, follow these steps:

1. Pull the paper tray completely out of the machine.
   For `Jam Tray 1`:

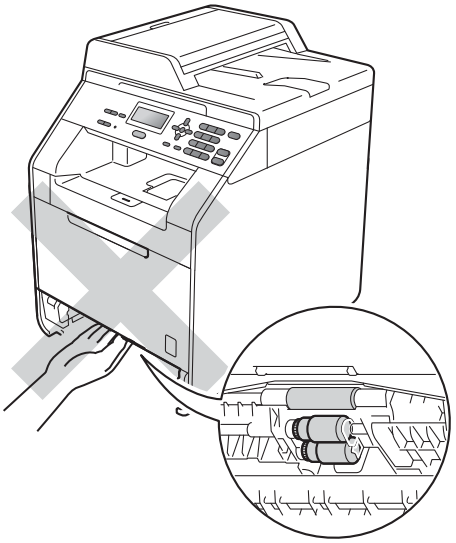


   For `Jam Tray 2`:



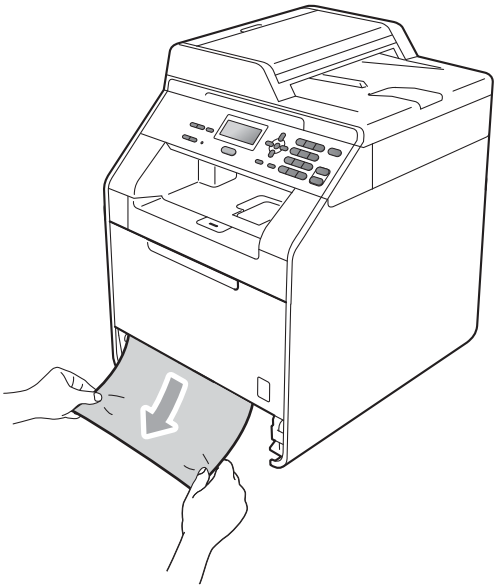
WARNING

DO NOT touch the shaded parts shown in the illustration. These rollers may be rotating at high speed.



B

2 Use both hands to slowly pull out the jammed paper.



IMPORTANT

If the paper cannot easily be removed in this direction, stop and follow the instructions for *Paper is jammed inside the machine* on page 92.

Note

Pulling out the jammed paper downwards allows you to remove the paper easier.

3 Make sure the paper is below the maximum paper mark (▼▼▼) of the paper tray. While pressing the green paper-guide release lever, slide the paper guides to fit the paper size. Make sure that the guides are firmly in the slots. (See *Loading paper in the standard paper tray* on page 10.)

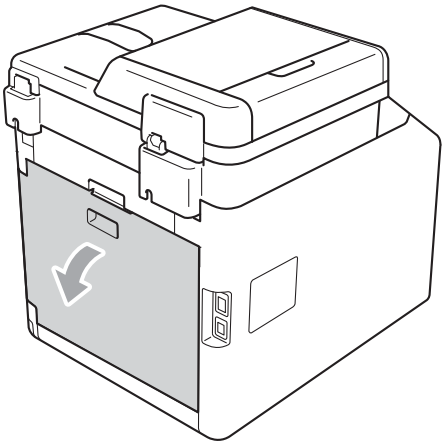
4 Put the paper tray firmly back in the machine.

Paper is jammed at the back of the machine

If the LCD shows `Jam Rear`, a paper jam occurred behind the back cover. Follow these steps:

1 Leave the machine turned on for 10 minutes to cool down.

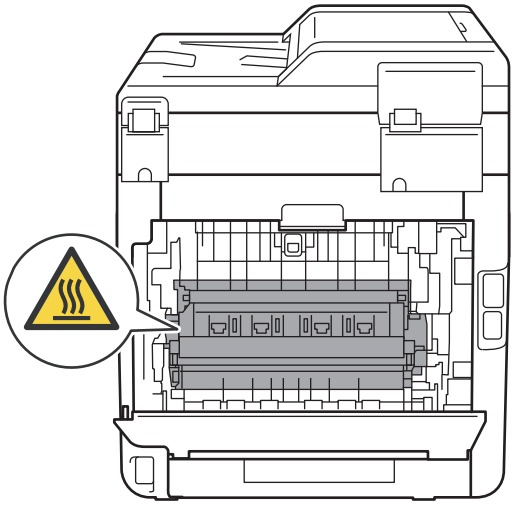
2 Open the back cover.



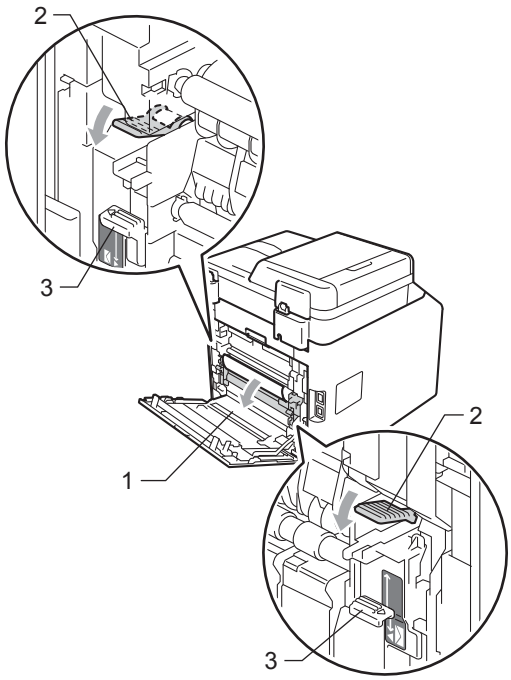
⚠ CAUTION

HOT SURFACE

After you have just used the machine, some internal parts of the machine will be extremely hot. Wait for the machine to cool down before you touch the internal parts of the machine.



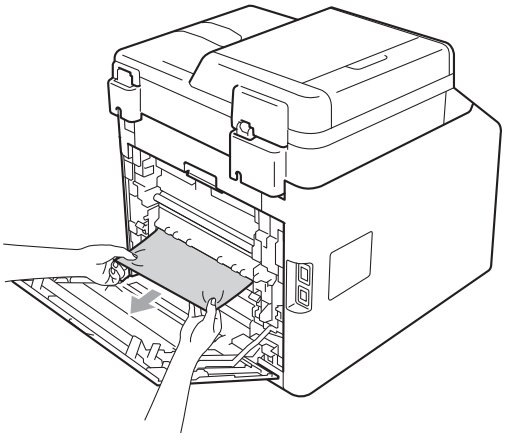
3 Pull the green tabs (2) at the left and right hand sides toward you and fold down the fuser cover (1).



Note

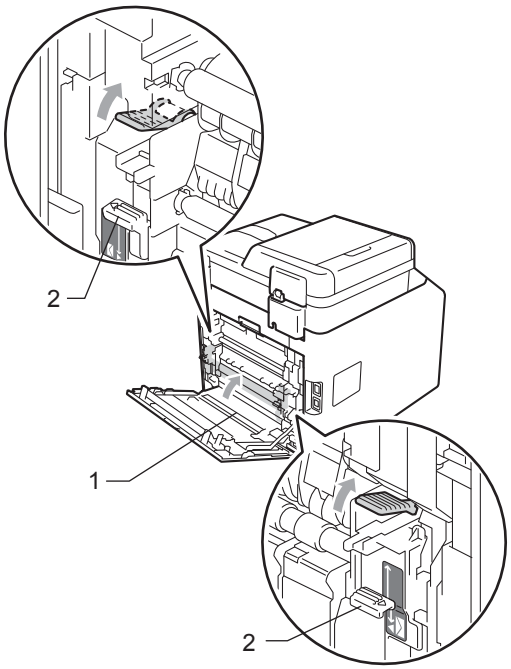
If the envelope levers (3) inside the back cover are pulled down to the envelope position, lift these levers to the original position before pulling the green tabs (2) down.

4 Using both hands, gently pull the jammed paper out of the fuser unit.



B

5 Close the fuser cover (1).



Note

If you print on envelopes, pull down the envelope levers (2) to the envelope position again before closing the back cover.

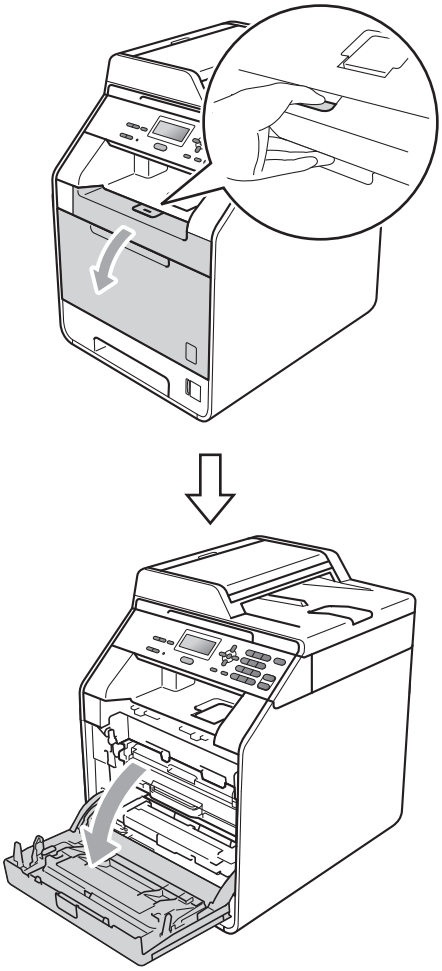
6 Fully close the back cover.

Paper is jammed inside the machine

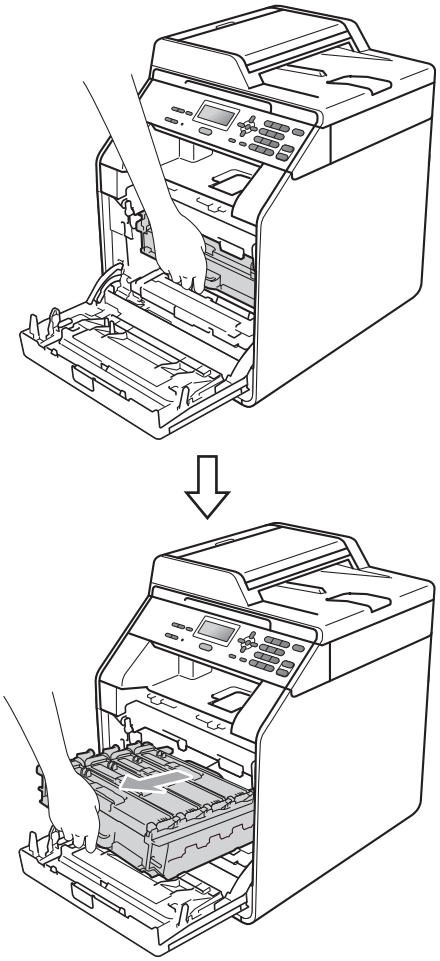
If the LCD shows `Jam Inside`, follow these steps:

1 Turn off the machine. Disconnect all cables, and then unplug the power cord from the electrical socket.

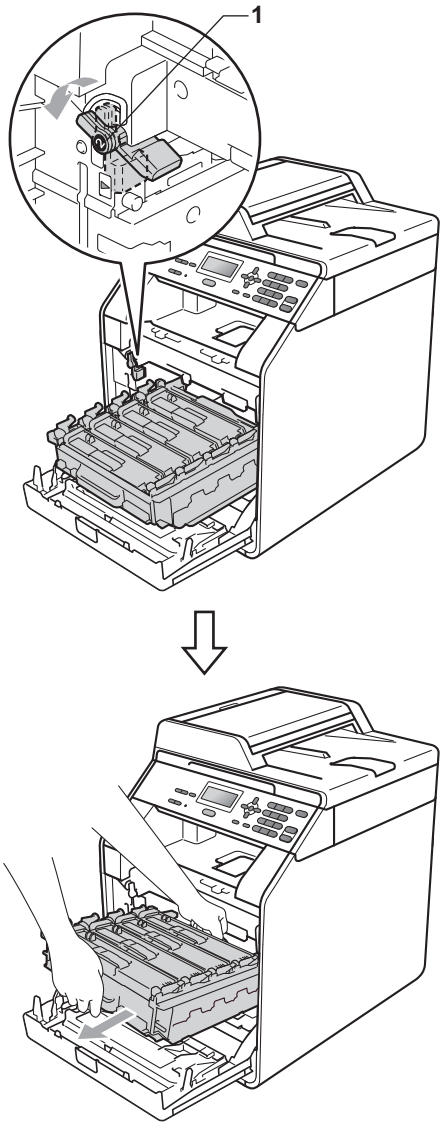
2 Press the front cover release button and then open the front cover.



3 Hold the green handle of the drum unit. Pull the drum unit out until it stops.

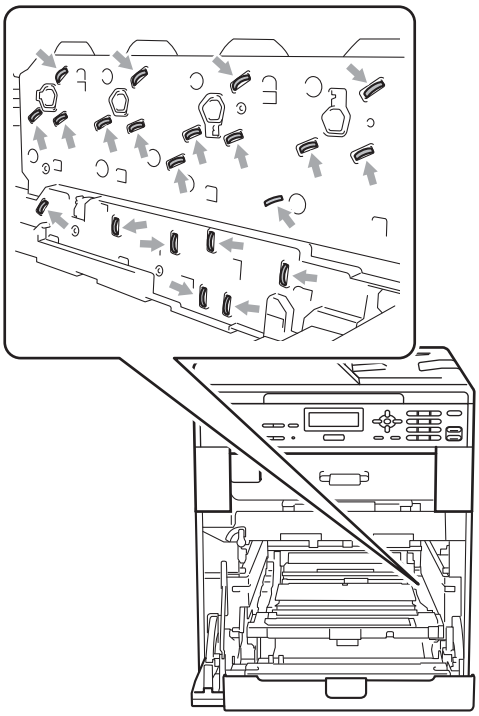


4 Turn the green lock lever (1) at the left of the machine anticlockwise to the release position. Holding the green handles of the drum unit, lift the front of the drum unit and remove it from the machine.



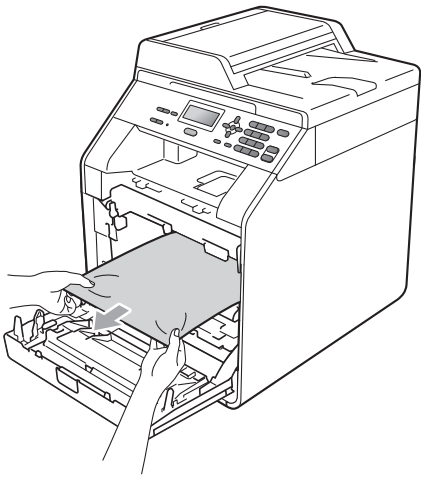
IMPORTANT

- We recommend that you place the drum unit and the toner cartridges on a clean, flat surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- To prevent damage to the machine from static electricity, DO NOT touch the electrodes shown in the illustration.

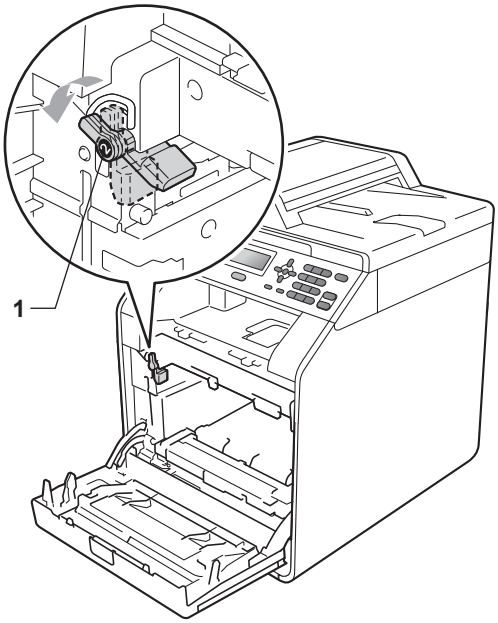


- Hold the green handles of the drum unit when you carry it. DO NOT hold the side of the drum unit.

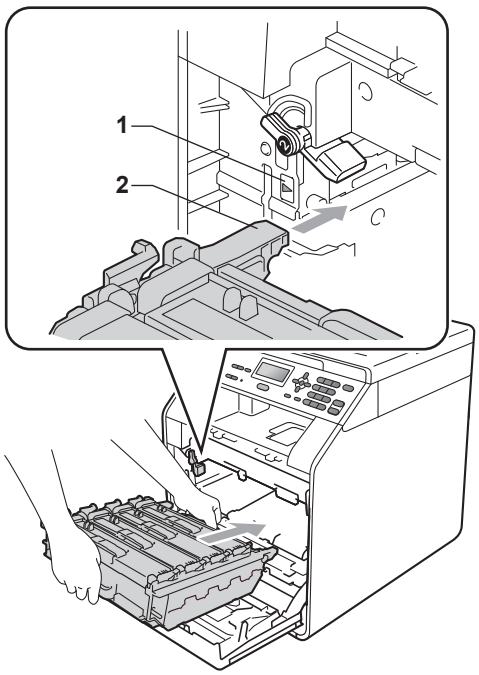
5 Pull out the jammed paper slowly.



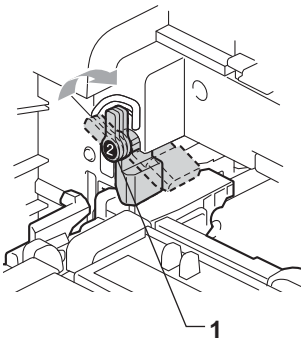
6 Make sure the green lock lever (1) is in the release position as shown in the illustration.



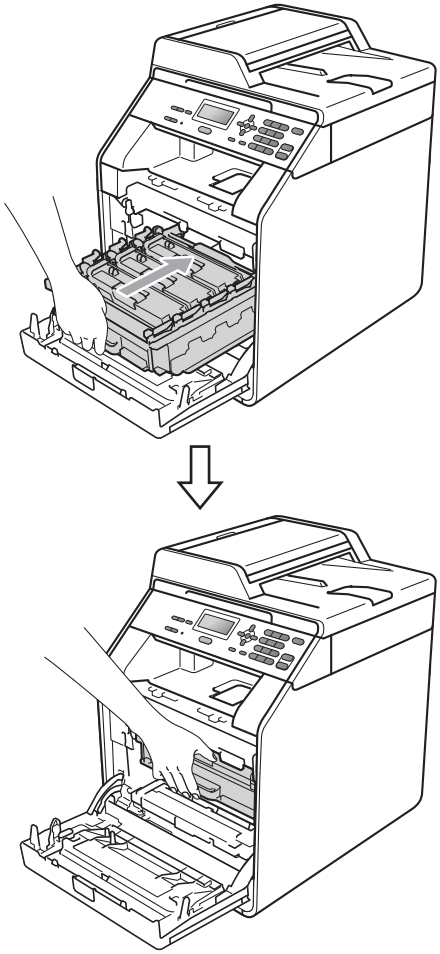
7 Match the guide ends (2) of the drum unit to the ▶ marks (1) on both sides of the machine, then gently slide the drum unit into the machine until it stops at the green lock lever.



8 Turn the green lock lever (1) clockwise to the lock position.



9 Push the drum unit in until it stops.



10 Close the front cover of the machine.

Note

If you turn off the machine during `Jam Inside`, the machine will print incomplete data from your computer. Before you turn on the machine, delete the print spool job on your computer.

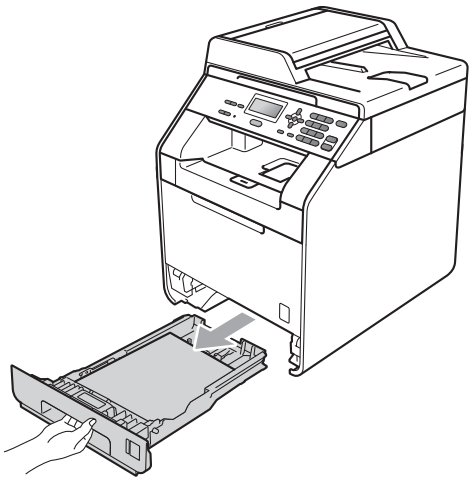
11 Plug the machine's power cord back into the electrical socket first, and reconnect all cables. Turn on the machine.

B

Paper is jammed underneath paper tray 1

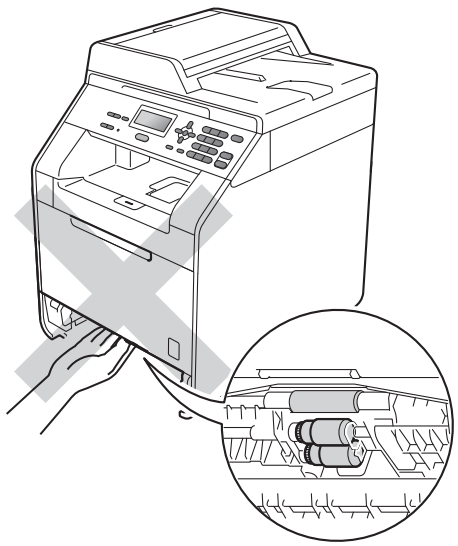
If the LCD shows `Jam Duplex`, follow these steps:

1. Pull the paper tray completely out of the machine.

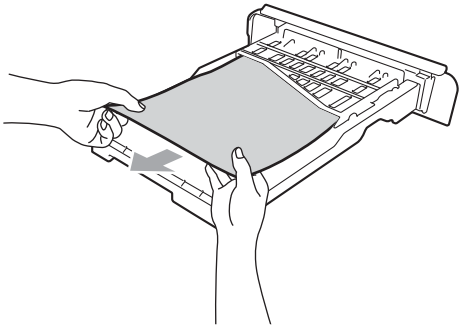


WARNING

DO NOT touch the shaded parts shown in the illustration. These rollers may be rotating at high speed.



2. If paper is not caught inside the machine, check underneath the paper tray.



3. Put the paper tray firmly back in the machine.

Troubleshooting

If you think there is a problem with your machine, check the chart below and follow the troubleshooting tips.

Most problems can be easily resolved by yourself. If you need additional help, the Brother Solutions Center offers the latest FAQs and troubleshooting tips.

Visit us at http://solutions.brother.com/.

If you are having difficulty with your machine

Check the chart below and follow the troubleshooting tips.

Copy difficulties

Difficulties	Suggestions
Can not make a copy	Contact your administrator to check your Secure Function Lock settings.
Vertical black line appears in copies.	Black vertical lines on copies are typically caused by dirt or correction fluid on the glass strip, or one or more corona wires are dirty. (See *Cleaning the scanner glass* on page 61 and *Cleaning the corona wires* on page 66.)
Copies are blank.	Make sure you are loading the document properly. (See *Using the automatic document feeder (ADF)* on page 25 or *Using the scanner glass* on page 26.)

Printing difficulties

Difficulties	Suggestions
No printout.	■ Check that the machine is plugged in and the power switch is turned on. ■ Check that the toner cartridge and drum unit are installed correctly. (See *Replacing the drum unit* on page 42.) ■ Check the interface cable connection on both the machine and your computer. (See the *Quick Setup Guide*.) ■ Check that the correct printer driver has been installed and chosen. ■ Check to see if the LCD is showing an error message. (See *Error and maintenance messages* on page 80.) ■ Check the machine is online: (Windows® 7 and Windows Server® 2008 R2) Click the **Start** button and **Devices and Printers**. Right-click **Brother DCP-XXXX Printer**. Make sure that **Use Printer Offline** is unchecked. (Windows Vista®) Click the **Start** button, **Control Panel**, **Hardware and Sound**, and then **Printers**. Right-click **Brother DCP-XXXX Printer**. Make sure that **Use Printer Offline** is unchecked. (Windows® XP and Windows Server® 2003/2008) Click the **Start** button and choose **Printers and Faxes**. Right-click **Brother DCP-XXXX Printer**. Make sure that **Use Printer Offline** is unchecked. (Windows® 2000) Click the **Start** button and choose **Settings** and then **Printers**. Right-click **Brother DCP-XXXX Printer**. Make sure that **Use Printer Offline** is unchecked. ■ Contact your administrator to check your Secure Function Lock settings.

Printing difficulties (continued)

Difficulties	Suggestions
The machine prints unexpectedly or it prints garbage.	■ Pull out the paper tray and wait until the machine stops printing. Then turn off the machine and disconnect from the power for several minutes. ■ Check the settings in your application to make sure it is set up to work with your machine.
The machine prints the first couple of pages correctly, then some pages have text missing.	■ Check the settings in your application to make sure that it is set up to work with your machine. ■ Your computer is not recognising the machine's input buffer's full signal. Make sure that you connected the interface cable correctly. (See the *Quick Setup Guide*.)
The headers or footers appear when the document displays on the screen but they do not show up when it is printed.	There is an unprintable area on the top and bottom of the page. Adjust the top and bottom margins in your document to allow for this. (See *Scannable area* on page 17.)
The machine does not print on both sides of the paper even though the printer driver setting is Duplex.	Check the paper size setting in the printer driver. You need to choose A4 [60 to 105 g/m^2].
The machine is not printing or has stopped printing.	Press **Job Cancel**. As the machine cancels the job and clears it from the memory it may produce an incomplete printout.

Scanning difficulties

Difficulties	Suggestions
TWAIN errors appear while scanning.	Make sure that the Brother TWAIN driver is chosen as the primary source. In PaperPort™ 12SE, click **File**, **Scan or Get Photo** and choose the Brother TWAIN driver.
OCR does not work.	Try increasing the scanning resolution. (Macintosh users) Presto! PageManager must be downloaded and installed before use. See *Accessing Brother Support (Macintosh)* on page 4 for further instructions.
Network scanning does not work.	See *Network difficulties* on page 100.
Cannot scan.	Contact your administrator to check your Secure Function Lock Settings.

Software difficulties

Difficulties	Suggestions
Cannot install software or print.	Run the **Repair MFL-Pro Suite** program on the CD-ROM. This program will repair and reinstall the software.
Cannot perform '2 in 1' or '4 in 1' printing.	Check that the paper size setting in the application and in the printer driver are the same.
The machine does not print from Adobe® Illustrator®.	Try to reduce the print resolution. (See *Advanced tab* in the *Software User's Guide*.)

Paper handling difficulties

Difficulties	Suggestions
The machine does not feed paper. The LCD shows `No Paper` or a Paper Jam message.	■ If there is no paper, load a new stack of paper into the paper tray. ■ If there is paper in the paper tray, make sure it is straight. If the paper is curled, you should straighten it. Sometimes it is helpful to remove the paper, turn the stack over and put it back into the paper tray. ■ Reduce the amount of paper in the paper tray, and then try again. ■ Make sure that manual feed mode is not chosen in the printer driver. ■ Clean the paper pick-up roller. See *Cleaning the paper pick-up rollers* on page 76. ■ If the LCD shows the Paper Jam message and you still have a problem, see *Error and maintenance messages* on page 80.
The machine does not feed paper from the MP tray.	■ Make sure that **MP tray** is chosen in the printer driver. ■ Fan the paper well and put it back in the tray firmly.
How do I print on envelopes?	You can load envelopes in the MP tray. Your application must be set up to print the envelope size you are using. This is usually done in the Page Setup or Document Setup menu of your application. (See your application's manual for more information.)
What paper can I use?	You can use thin paper, plain paper, thick paper, bond paper, recycled paper, glossy paper, envelopes and labels that are made for laser machines. (For details, see *Acceptable paper and other print media* on page 20.)
There is a paper jam.	Clear the jammed paper. (See *Error and maintenance messages* on page 80.)

Print quality difficulties

Difficulties	Suggestions
Printed pages are curled.	■ Low quality thin or thick paper or not printing on the recommended side of the paper could cause this problem. Try turning over the stack of paper in the paper tray. ■ Make sure that you choose the Paper Type that suits the print media type you are using. (See *Acceptable paper and other print media* on page 20.)
Printed pages are smeared.	The Paper Type setting may be incorrect for the type of print media you are using, or the print media may be too thick or have a rough surface. (See *Acceptable paper and other print media* on page 20 and *Basic tab* in the *Software User's Guide*.)
Printouts are too light.	■ If this problem occurs when making copies, set Toner Save mode to `Off` in the machine menu settings. (See *Toner Save* in *Chapter 1* of the *Advanced User's Guide*) ■ Set Toner Save mode to `Off` in the **Advanced** tab in the printer driver. (See *Advanced tab* in the *Software User's Guide*.) ■ In the **Basic** tab of the printer driver, click the **Settings** button and check the **Enhance Black Printing** check box.

Network difficulties

Difficulties	Suggestions
Cannot print over a wired Network.	If you are having Network problems see the *Network User's Guide* for more information. Make sure your machine is powered on and is on-line and in the Ready mode. Print the Network Configuration list to see your current Network settings. (See *Reports* in *Chapter 1* of the *Advanced User's Guide*.) Reconnect the LAN cable to the hub to verify that the cable and network connections are good. If possible, try connecting the machine to a different port on your hub using a different cable. You can check the current wired network status from the Network control panel menu.
The network scanning feature does not work.	**(Windows®)** It is necessary to set the third-party Security/Firewall Software to allow Network scanning. To add port 54925 for Network scanning, enter the information below: ■ In Name: Enter any description, for example Brother NetScan. ■ In Port number: Enter 54925. ■ In Protocol: UDP is selected. Please refer to the instruction manual that came with your third-party Security/Firewall Software or contact the software manufacturer. For more details, you can read FAQs and troubleshooting suggestions at http://solutions.brother.com/. **(Macintosh)** Re-select your machine in the **Device Selector** application located in **Macintosh HD**/**Library**/**Printers**/**Brother**/**Utilities**/**DeviceSelector** or from the model list in **ControlCenter2**.
Your computer cannot find your machine.	**(Windows®)** The firewall setting on your PC may be rejecting the necessary network connection. (For details, see the instructions above.) **(Macintosh)** Re-select your machine in the **Device Selector** application located in **Macintosh HD**/**Library**/**Printers**/**Brother**/**Utilities**/**DeviceSelector** or from the Model pop-up menu of **ControlCenter2**.

Other

Difficulties	Suggestions
The machine will not turn on.	Adverse conditions on the power connection (such as lightning or a power surge) may have triggered the machine's internal safety mechanisms. Turn the machine off and unplug the power cord. Wait for ten minutes, then plug in the power cord and turn the machine on. If the problem is not solved, turn off the machine. Plug the power cord into a different known working outlet and turn on the machine.

Improving the print quality

If you have a print quality problem, print a test page first (**Menu**, **3**, **2**, **3**). If the printout looks good, the problem is probably not the machine. Check the interface cable connections or try printing a different document. If the printout or test page printed from the machine has a quality problem, check the following steps first. And then, if you still have a print quality problem, check the chart below and follow the recommendations.

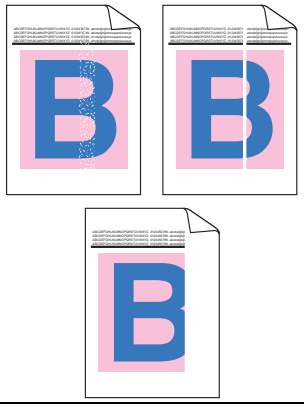
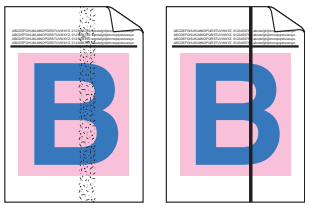
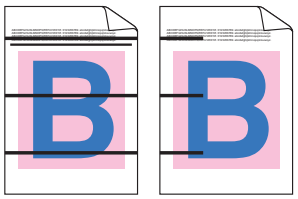
Note

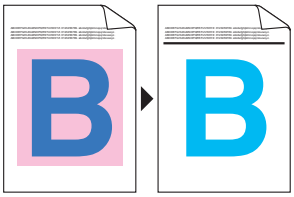
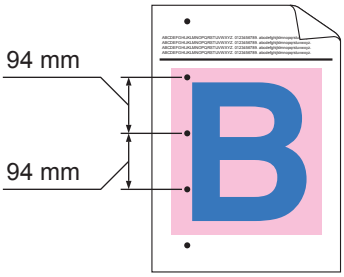
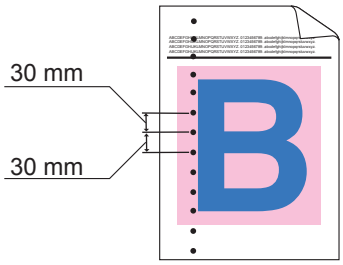
Brother does not recommend the use of cartridges other than Brother Original cartridges or the refilling of used cartridges with toner from other sources.

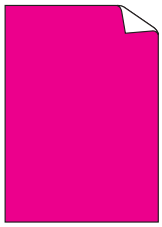
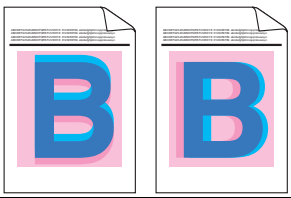
1. To get the best print quality, we suggest using the recommended paper. Check that you use paper that meets our specifications. (See *Acceptable paper and other print media* on page 20.)

2. Check that the drum unit and toner cartridges are installed properly.

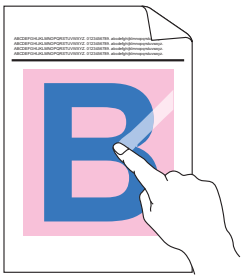
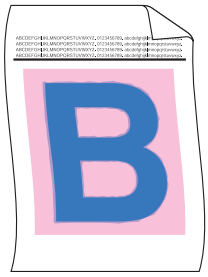
Examples of poor print quality	Recommendation
White lines, bands or ribbing across the page	■ Put in a new drum unit. (See *Replacing the drum unit* on page 42.)
Colours are light or unclear on the whole page	■ Make sure Toner Save mode is off in the control panel of the machine or the printer driver. ■ Make sure that you choose the correct media type in the printer driver or in the machine's Paper Type menu setting. (See *Acceptable paper and other print media* on page 20 and *Basic tab* in the *Software User's Guide*.) ■ Shake all four toner cartridges gently. ■ Wipe the laser scanner windows with a dry lint-free soft cloth. (See *Cleaning the laser scanner windows* on page 62.) ■ Perform the calibration. (See *Calibration* on page 77.)

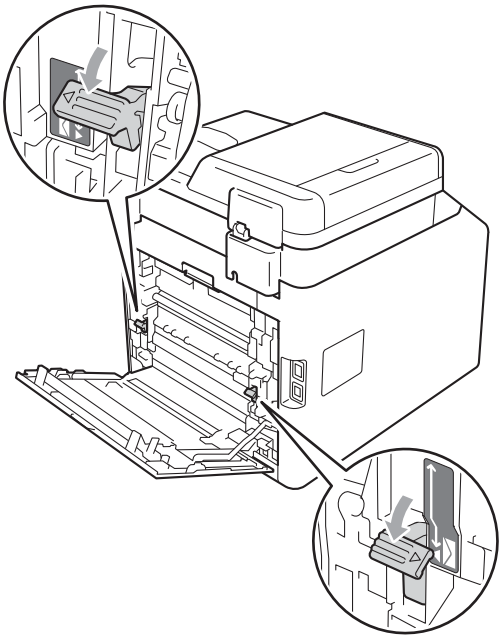
Examples of poor print quality	Recommendation
White streaks or bands down the page 	■ Wipe the laser scanner windows with a dry lint-free soft cloth. (See *Cleaning the laser scanner windows* on page 62.) ■ Clean the drum unit. (See *Cleaning the drum unit* on page 70.) ■ Identify the missing colour and put in a new toner cartridge. (See *Replacing a Toner cartridge* on page 35.) To identify the colour of the toner cartridge, visit us at http://solutions.brother.com/ to view our FAQs and troubleshooting tips.
Coloured streaks or bands down the page 	■ Clean all four corona wires (one for each colour) inside the drum unit by sliding the green tab. (See *Cleaning the corona wires* on page 66.) ■ Make sure the corona wire green tabs are at their home positions (▲). ■ Clean the scanner glass and scanner glass strip. (See *Cleaning the scanner glass* on page 61.) ■ Replace the toner cartridge that matches the colour of the streak or band. (See *Replacing a Toner cartridge* on page 35.) To identify the colour of the toner cartridge, visit us at http://solutions.brother.com/ to view our FAQs and troubleshooting tips. ■ Put in a new drum unit. (See *Replacing the drum unit* on page 42.)
Coloured lines across the page 	■ If coloured lines appear at 30 mm intervals, replace the toner cartridge that matches the colour of the line. (See *Replacing a Toner cartridge* on page 35.) To identify the colour of the toner cartridge, visit us at http://solutions.brother.com/ to view our FAQs and troubleshooting tips. ■ If coloured lines appear at 94 mm intervals, put in a new drum unit. (See *Replacing the drum unit* on page 42.)
White spots or hollow print 	■ Make sure that the media type settings in the printer driver and in the machine's Paper Type menu matches the type of paper you are using. (See *Acceptable paper and other print media* on page 20 and *Basic tab* in the *Software User's Guide*.) ■ Check the machine's environment. Conditions such as high humidity can cause white spots or hollow print. (See *To use the product safety* in the *Safety and Legal Booklet*.)

Examples of poor print quality	Recommendation
Completely blank or some colours are missing 	■ Put in a new toner cartridge. (See *Replacing a Toner cartridge* on page 35.) To identify the colour of the toner cartridge, visit us at http://solutions.brother.com/ to view our FAQs and troubleshooting tips. ■ Put in a new drum unit. (See *Replacing the drum unit* on page 42.)
Coloured spots at 94 mm 	■ If the problem is not solved after printing, the drum may have foreign material, such as glue from a label, stuck on the drum surface. Clean the drum unit. (See *Cleaning the drum unit* on page 70.) ■ Put in a new drum unit. (See *Replacing the drum unit* on page 42.)
Coloured spots at 30 mm 	■ Identify the colour causing the problem and put in a new toner cartridge. (See *Replacing a Toner cartridge* on page 35.) To identify the colour of the toner cartridge, visit us at http://solutions.brother.com/ to view our FAQs and troubleshooting tips.
Toner scatter or toner stain 	■ Check the machine's environment. Conditions such as high humidity and high temperatures may cause this print quality problem. (See *Choosing a location* in the *Safety and Legal Booklet*.) ■ Identify the colour causing the problem and put in a new toner cartridge. (See *Replacing a Toner cartridge* on page 35.) To identify the colour of the toner cartridge, visit us at http://solutions.brother.com/ to view our FAQs and troubleshooting tips. ■ If the problem continues, put in a new drum unit. (See *Replacing the drum unit* on page 42.)

Examples of poor print quality	Recommendation
The colour of your printouts is not what you expected	■ Make sure **Toner Save** mode is off in the control panel of the machine or the printer driver. ■ Perform the calibration. (See *Calibration* on page 77.) ■ Adjust the colour by using the custom setting in the printer driver and by using the control panel of the machine. Colours the machine can print and colours you see on a monitor are different. The machine may not be able to reproduce the colours on your monitor. ■ If colours appear in the printed grey areas, make sure there is a check in the **Improve Grey Colour** check box of the printer driver. (See *Basic tab* for Windows® printer driver, *Advanced tab* for Macintosh printer driver or *Features* for Macintosh BR-Script printer driver in the *Software User's Guide*.) ■ If shaded areas look dull, remove the check from the **Improve Grey Colour** check box. ■ If a printed black graphic is too light, choose **Enhance Black Printing** mode in the printer driver. (See *Settings Dialog* for Windows® printer driver, *Advanced options* for Windows® BR-Script printer driver, *Print Settings* for Macintosh printer driver or *Printer Features* for Macintosh BR-Script printer driver in the *Software User's Guide*.) ■ Identify the colour causing the problem and put in a new toner cartridge. (See *Replacing a Toner cartridge* on page 35.) ■ Put in a new drum unit. (See *Replacing the drum unit* on page 42.)
All one colour 	■ Put in a new drum unit. (See *Replacing the drum unit* on page 42.)
Colour misregistration 	■ Make sure that the machine is on a solid level surface. ■ Perform the auto colour registration using the control panel (see *Auto Registration* on page 78) or perform the manual colour registration using the control panel (see *Manual Registration* on page 78). ■ Put in a new drum unit. (See *Replacing the drum unit* on page 42.) ■ Put in a new belt unit. (See *Replacing the belt unit* on page 48.)

Examples of poor print quality	Recommendation
Uneven density appears periodically across the page 	■ Perform the calibration. (See *Calibration* on page 77.) ■ Adjust the contrast or brightness when you are in copy mode. (See *Adjusting Contrast, Colour and Brightness* in *Chapter 3* of the *Advanced User's Guide*.) ■ Identify the colour that is uneven and put in a new toner cartridge for that colour. (See *Replacing a Toner cartridge* on page 35.) To identify the colour of the toner cartridge, visit us at http://solutions.brother.com/ to view our FAQs and troubleshooting tips. ■ Put in a new drum unit. (See *Replacing the drum unit* on page 42.)
Thin lines do not print	■ Make sure Toner Save mode is off in the control panel of the machine or the printer driver. ■ Change the print resolution. ■ If you use a Windows® printer driver, choose **Improve Pattern Printing** or **Improve Thin Line** in **Settings** from the **Basic** tab. (See *Settings Dialog* in the *Software User's Guide*.)
Wrinkle 	■ Change to the recommended type of paper. (See *Recommended paper and print media* on page 20 .) ■ Make sure that the back cover is closed properly. ■ Make sure that the two grey levers inside the back cover are in the up position. ■ Make sure that the media type settings in the printer driver and in the machine's Paper Type menu matches the type of paper you are using. (See *Acceptable paper and other print media* on page 20 and *Basic tab* in the *Software User's Guide*.)
Offset image 	■ Make sure that the media type settings in the printer driver and in the machine's Paper Type menu matches the type of paper you are using. (See *Acceptable paper and other print media* on page 20 and *Basic tab* in the *Software User's Guide*.) ■ Make sure that the two grey levers inside the back cover are in the up position. ■ Check the machine's environment. Conditions such as low humidity and low temperatures may cause this print quality problem. (See *Choosing a location* in the *Safety and Legal Booklet*.) ■ Put in a new drum unit. (See *Replacing the drum unit* on page 42.)

Examples of poor print quality	Recommendation
Poor fixing 	■ Make sure that the media type settings in the printer driver and in the machine's Paper Type menu matches the type of paper you are using. (See *Acceptable paper and other print media* on page 20 and *Basic tab* in the *Software User's Guide*.) ■ Make sure that the two grey levers inside the back cover are in the up position. ■ Choose **Improve Toner Fixing** mode in the printer driver. (See *Other Print Options* (For Windows® printer driver), *Advanced options* (For Windows® BR-Script printer driver), *Print Settings* (For Macintosh printer driver) or *Printer Features* (For Macintosh BR-Script printer driver) in the *Software User's Guide*.) If this selection does not provide enough improvement, change the printer driver setting in **Media Type** to a thick setting.
Curled or wavy 	■ Choose **Reduce Paper Curl** mode in the printer driver when you do not use our recommended paper. (See *Other Print Options* (For Windows® printer driver), *Advanced options* (For Windows® BR-Script printer driver), *Print Settings* (For Macintosh printer driver) or *Printer Features* (For Macintosh BR-Script printer driver) in the *Software User's Guide*.) ■ If you do not use the machine often, the paper may have been in the paper tray too long. Turn over the stack of paper in the paper tray. Also, fan the paper stack and then rotate the paper 180° in the paper tray. ■ Store the paper where it will not be exposed to avoid high temperatures and high humidity. ■ Open the back cover (face-up output tray) to let the printed paper out on the back output tray.

Examples of poor print quality	Recommendation
Envelope creases 	■ Make sure that the envelope lever is pulled down when you are printing envelopes.  ■ If creases occur with the envelope levers in the envelope position, print with the back cover opened and feed one envelope at a time from the MP tray.

Machine Information

Checking the Serial Number

You can see the machine's Serial Number on the LCD.

1. Press **Menu**, **5**, **2**.
2. Press **Stop/Exit**.

Reset functions

The following reset functions are available:

1 `Network`

You can reset the print server back to its default factory settings such as the password and IP address information.

2 `All Settings`

You can reset all the machine settings back to the settings that were set at the factory.

Brother strongly recommends you perform this operation when you dispose of the machine.

Note

Unplug the interface cable before you choose `Network` or `All Settings`.

How to reset the machine

1. Press **Menu**, **1**, **8**.
2. Press ▲ or ▼ to choose the reset function you want to use.
   Press **OK**.
3. Do one of the following;
   - To reset the settings, press **1** and go to step ❹.
   - To exit without making changes, press **2** and go to step ❺.
4. You will be asked to reboot the machine. Do one of the following;
   - To reboot the machine press **1**. The machine will begin the reset.
   - To exit without rebooting the machine, press **2**. Go to step ❺.
5. Press **Stop/Exit**.

Note

You can also reset the Network settings by pressing **Menu**, **4**, **0**.

C Menu and features

On-screen programming

Your machine has been designed to be easy to use. The LCD provides on-screen programming using the menu keys.

We have created step by step on-screen instructions to help you program your machine. Simply follow the steps as they guide you through the menu selections and programming options.

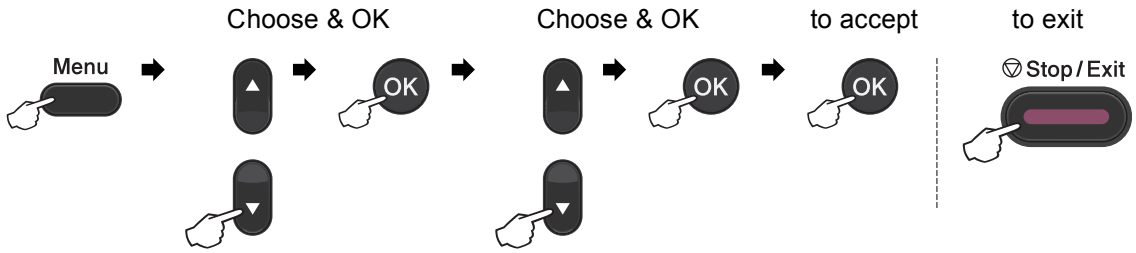
How to access the menu mode

1. Press **Menu**.
2. Choose an option.
   - Press **1** for General Setup menu.
   - Press **2** for Copy menu.
   - Press **3** for Printer menu.
   - Press **4** for Network menu.
   - Press **5** for Machine Info. menu.

   You can also scroll through each menu level by pressing ▲ or ▼ for the direction you want.
3. Press **OK** when the option you want appears on the LCD.
   The LCD will then show the next menu level.
4. Press ▲ or ▼ to scroll to your next menu selection.
5. Press **OK**.
   When you have finished setting an option, the LCD will show `Accepted`.
6. Press **Stop/Exit** to exit Menu mode.

Menu table

The factory settings are shown in Bold with an asterisk.



Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
1.General Setup	1.Paper	1.Paper Type	1.MP Tray	Thin **Plain*** Thick Thicker Recycled Paper Glossy Paper	Sets the type of paper in the paper tray.	18
			2.Tray#1	Thin **Plain*** Thick Thicker Recycled Paper	Sets the type of paper in the paper tray.	18
			3.Tray#2 (This menu only appears if you have the optional tray#2.)	Thin **Plain*** Thick Thicker Recycled Paper	Sets the type of paper in the paper tray.	18
	1 See *Advanced User's Guide*. 2 See *Quick Setup Guide*. 3 See *Software User's Guide*.					
	The factory settings are shown in Bold with an asterisk.					

Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
1.General Setup (Continued)	1.Paper (Continued)	2.Paper Size	1.MP Tray	**A4*** Letter Legal Executive A5 A5 L A6 B5 B6 Folio Any	Sets the size of the paper in the paper tray.	18
			2.Tray#1	**A4*** Letter Legal Executive A5 A5 L A6 B5 B6 Folio	Sets the size of the paper in the paper tray.	18
			3.Tray#2 (This menu only appears if you have the optional tray#2.)	**A4*** Letter Legal Executive A5 B5 B6 Folio	Sets the size of the paper in the paper tray.	18
	2.Beeper	—	—	Off Low **Med*** High	Adjusts the volume level of the beeper.	9

1 See *Advanced User's Guide*.

2 See *Quick Setup Guide*.

3 See *Software User's Guide*.

The factory settings are shown in Bold with an asterisk.

C

Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
1.General Setup (Continued)	3.Ecology	1.Toner Save	—	On **Off***	Increases the page yield of the toner cartridge.	See [1].
		2.Sleep Time	—	Range varies depending on models. **003Min***	Conserves power.	
	4.Tray Use	1.Copy	—	Tray#1 Only Tray#2 Only MP Only **MP>T1>T2*** T1>T2>MP (Tray#2 or T2 appears only if you installed the optional paper tray.)	Chooses the tray that will be used for Copy mode.	19
		2.Print	—	Tray#1 Only Tray#2 Only MP Only **MP>T1>T2*** T1>T2>MP (Tray#2 or T2 appears only if you installed the optional paper tray.)	Chooses the tray that will be used for Print mode.	19
	5.LCD Contrast	—	—	-□□□□■+ -□□□■□+ **-□□■□□+*** -□■□□□+ -■□□□□+	Adjusts the contrast of the LCD.	See [1].

[1] See *Advanced User's Guide*.

[2] See *Quick Setup Guide*.

[3] See *Software User's Guide*.

The factory settings are shown in Bold with an asterisk.

Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
1.General Setup (Continued)	6.Function Lock	—	—	—	Can restrict selected machine operation for up to 25 individual users and all other non-authorized Public users.	See [1].
	7.Document Scan	1.Glass ScanSize	—	**A4*** Letter	Adjusts the scan area of the scanner glass to the size of the document.	See [3].
		2.File Size	**1.Color**	Small **Middle*** Large	You can set your own default settings of the data compression rate.	See [3].
			2.Gray	Small **Middle*** Large		
	8.Reset	**1.Network**	—	1.Reset 2.Exit	Restores all network settings to factory default.	108
		2.All Settings	—	1.Reset 2.Exit	Restores all the machine settings to factory default.	
	0.Local Language	—	—	(Choose your language.)	Allows you to change the LCD language for your country.	See [2].

1 See *Advanced User's Guide*.

2 See *Quick Setup Guide*.

3 See *Software User's Guide*.

The factory settings are shown in Bold with an asterisk.

C

Level 1	Level 2	Level 3	Options	Descriptions	Page
2.Copy	1.Quality	—	**Auto*** Text Photo Graph	You can choose the Copy resolution for your type of document.	See [1].
	2.Brightness	—	-□□□□■+ -□□□■□+ **-□□■□□+*** -□■□□□+ -■□□□□+	Adjust the brightness for copies.	
	3.Contrast	—	-□□□□■+ -□□□■□+ **-□□■□□+*** -□■□□□+ -■□□□□+	Adjusts the contrast for copies.	
	4.Color Adjust	1.Red	-□□□□■+ -□□□■□+ **-□□■□□+*** -□■□□□+ -■□□□□+	Adjusts the red colour for copies.	
		2.Green	-□□□□■+ -□□□■□+ **-□□■□□+*** -□■□□□+ -■□□□□+	Adjusts the green colour for copies.	
		3.Blue	-□□□□■+ -□□□■□+ **-□□■□□+*** -□■□□□+ -■□□□□+	Adjusts the blue colour for copies.	

[1] See *Advanced User's Guide*.

The factory settings are shown in Bold with an asterisk.

Level 1	Level 2	Level 3	Options	Descriptions	Page
3.Printer	1.Emulation	—	**Auto*** HP LaserJet BR-Script 3	Chooses the emulation mode.	See [1].
	2.Print Options	1.Internal Font	1.HP LaserJet 2.BR-Script 3	Prints a list of the machine's internal fonts.	
		2.Configuration	—	Prints a list of the machine's printer settings.	
		3.Test Print	—	Prints a test page.	
	3.Duplex	—	**Off*** On(Long Edge) On(Short Edge)	Enables or disables duplex printing. You can also choose long edge or short edge duplex printing.	
	4.Output Color	—	**Auto*** Color B&W	Chooses colour or black & white printed documents. If you choose Auto, the machine selects a suitable option for the document (Color or B&W).	
	5.Reset Printer	—	1.Reset 2.Exit	Restores the printer settings to the original factory default settings.	
	6.Calibration	—	Calibrate Reset	Adjusts the colour density or returns the colour calibration to the factory settings.	77
	7.Auto Regist.	—	1.Start 2.Exit	Adjust the print position of each colour automatically.	78

[1] See *Software User's Guide*.

The factory settings are shown in Bold with an asterisk.

C

Level 1	Level 2	Level 3	Options	Descriptions	Page
3.Printer (Continued)	**8.Manual Regist.**	**1.Print Chart**	—	Print the chart to manually check the registration of the colours.	78
		2.Set Regist.	1 Magenta Left 2 Cyan Left 3 Yellow Left 4 Magenta Center 5 Cyan Center 6 Yellow Center 7 Magenta Right 8 Cyan Right 9 Yellow Right	Sets the correction value on the chart you printed from Print Chart.	
	9.Frequency	—	**Normal*** Low Off	Sets the interval time you want to carry out the auto registration and the calibration.	78

[1] See *Software User's Guide*.

The factory settings are shown in Bold with an asterisk.

Level 1	Level 2	Level 3	Level 4	Options	Descriptions
4.Network	1.TCP/IP	1.Boot Method	—	**Auto*** Static RARP BOOTP DHCP	Chooses the BOOT method that best suits your needs.
		2.IP Address	—	[000-255]. [000-255]. [000-255]. [000-255]	Enter the IP address.
		3.Subnet Mask	—	[000-255]. [000-255]. [000-255]. [000-255]	Enter the Subnet mask.
		4.Gateway	—	[000-255]. [000-255]. [000-255]. [000-255]	Enter the Gateway address.
		5.Node Name	—	BRNXXXXXXXXXXXX	Enter the Node name.
		6.WINS Config	—	**Auto*** Static	Chooses the WINS configuration mode.
		7.WINS Server	—	Primary [000-255]. [000-255]. [000-255]. [000-255] Secondary [000-255]. [000-255]. [000-255]. [000-255]	Specifies the IP address of the primary or secondary WINS server.
		8.DNS Server	—	Primary [000-255]. [000-255]. [000-255]. [000-255] Secondary [000-255]. [000-255]. [000-255]. [000-255]	Specifies the IP address of the primary or secondary DNS server.
		9.APIPA	—	**On*** Off	Automatically allocates the IP address from the link-local address range.
		0.IPv6	—	On **Off***	Enable or Disable the IPv6 protocol. If you want to use the IPv6 protocol, visit http://solutions.brother.com/ for more information.
	See *Network User's Guide*.				
	The factory settings are shown in Bold with an asterisk.				

Level 1	Level 2	Level 3	Level 4	Options	Descriptions
4.Network (Continued)	**2.Ethernet**	—	—	**Auto*** 100B-FD 100B-HD 10B-FD 10B-HD	Chooses the Ethernet link mode.
	3.Status	—	—	Active 100B-FD Active 100B-HD Active 10B-FD Active 10B-HD Inactive	Shows the Ethernet link status.
	4.MAC Address	—	—	—	Shows the MAC address of the machine.
	5.Scan To FTP	—	—	**Color 100 dpi*** Color 200 dpi Color 300 dpi Color 600 dpi Gray 100 dpi Gray 200 dpi Gray 300 dpi B&W 200 dpi B&W 200x100 dpi	Chooses the file format to send the scanned data via FTP.
	6.ScanTo Network	—	—	**Color 100 dpi*** Color 200 dpi Color 300 dpi Color 600 dpi Gray 100 dpi Gray 200 dpi Gray 300 dpi B&W 200 dpi B&W 200x100 dpi	You can scan a black and white or colour document directly to a CIFS server on your local network or on the internet.
	0.Network Reset	**1.Reset**	—	1.Yes 2.No	Restore all network settings to factory default.
		2.Exit	—	—	
	See *Network User's Guide*.				
	The factory settings are shown in Bold with an asterisk.				

Level 1	Level 2	Level 3	Options	Descriptions	Page
5.Machine Info.	1.Date&Time	1.Date&Time	—	Puts the date and time on the LCD.	See [2].
		2.Auto Daylight	**On*** Off	Changes for Daylight Savings Time automatically.	See [1].
		3.Time Zone	UTCXXX:XX	Sets the time zone for your country.	See [3].
	2.Serial No.	—	—	You can check the serial number of your machine.	108
	3.Page Counter	—	Total List Copy Print	You can check the number of total pages the machine has printed during its life.	See [1].
	4.User Settings	—	—	Lists your settings.	
	5.Network Config	—	—	Lists your Network settings.	
	6.Drum Dot Print	—	—	Prints the drum dot check sheet.	70
	7.Parts Life	1.Drum	—	You can check the percentage of a machine part's life that remains available. (PF Kit 2 appears only if you installed the optional paper tray.)	See [1].
		2.Belt Unit	—		
		3.Fuser	—		
		4.Laser	—		
		5.PF Kit MP	—		
		6.PF Kit 1	—		
		7.PF Kit 2	—		

1 See *Advanced User's Guide*.

2 See *Quick Setup Guide*.

3 See *Network User's Guide*.

The factory settings are shown in Bold with an asterisk.

C

Entering text

When setting certain menu selections, you will need to type text characters. The numeric keys have letters printed on them. The keys: **0**, **#** and ✳ do *not* have printed letters because they are used for special characters.

Press the appropriate numeric key the number of times shown in this reference table to access the character you want.

Press Key	one time	two times	three times	four times	five times	six times	seven times	eight times	nine times
1	@	.	/	1	@	.	/	1	@
2	a	b	c	A	B	C	2	a	b
3	d	e	f	D	E	F	3	d	e
4	g	h	i	G	H	I	4	g	h
5	j	k	l	J	K	L	5	j	k
6	m	n	o	M	N	O	6	m	n
7	p	q	r	s	P	Q	R	S	7
8	t	u	v	T	U	V	8	t	u
9	w	x	y	z	W	X	Y	Z	9

For menu selections that do not allow lower case character selection, please use this reference table.

Press Key	one time	two times	three times	four times	five times
2	A	B	C	2	A
3	D	E	F	3	D
4	G	H	I	4	G
5	J	K	L	5	J
6	M	N	O	6	M
7	P	Q	R	S	7
8	T	U	V	8	T
9	W	X	Y	Z	9

Inserting spaces

To enter a space in a number, press ▶ once between numbers. To enter a space in a name, press ▶ twice between characters.

Making corrections

If you entered a letter incorrectly and want to change it, press ◀ or ▶ to move the cursor to the incorrect character, and then press **Clear**.

Repeating letters

To enter a character on the same key as the previous character, press ▶ to move the cursor right before pressing the key again.

Special characters and symbols

Press ✳, **#** or **0**, then press ◀ or ▶ to move the cursor to the symbol or character you want. Press **OK** to choose it. The symbols and characters below will appear depending on your menu selection.

Press ✳	for	(space) ! " # $ % & ’ ( ) ✳ + , - . /
Press **#**	for	: ; < = > ? @ [ ] ^ _ \ ~ ‘ | { }
Press **0**	for	Ä Ë Ö Ü À Ç È É 0

D Specifications

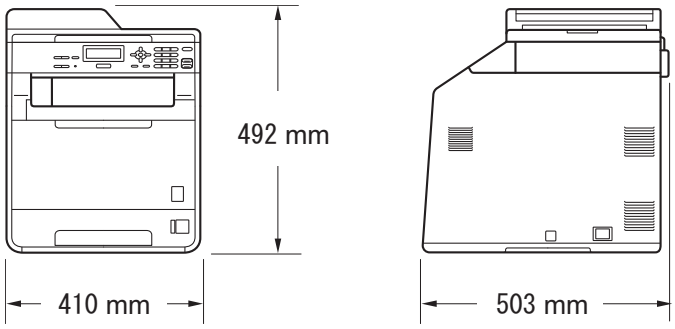
General

Printer Type	Laser	
Print Method	Electrophotography by semiconductor laser beam scanning	
Memory Capacity	128 MB	
LCD (liquid crystal display)	22 characters × 5 lines	
Power Source	220 - 240 V AC 50/60Hz	
Power Consumption [1]	Peak:	1200 W
	Copying (Average):	Approx. 570 W [2]
	Deep Sleep (Average):	Approx. 1.2 W
	Ready (Average):	Approx. 70 W

[1] USB connection to PC

[2] When making a copy from one sheet

Dimensions



Weight	With Consumables:	26.5 kg

Noise level	**Sound power** [1]	
	Operating (Colour Copying):	L_{WAd} = 6.68 B (A)
	Operating (Monochrome Copying):	L_{WAd} = 6.67 B (A)
	Office equipment with L_{WAd} > 6.30 B (A) is not suitable for use in room where people do primarily intellectual work. Such equipment should be placed in separate rooms because of the noise emission.	
	Standby:	L_{WAd} = 4.26 B (A)
	Sound pressure	
	Operating (Printing):	L_{PAm} = 57 dB (A)
	Standby:	L_{PAm} = 33 dB (A)

[1] Measured in accordance with ISO 9296.

Temperature	Operating:	10 to 32.5°C
	Storage:	0 to 40°C
Humidity	Operating:	20 to 80% (without condensation)
	Storage:	10 to 90% (without condensation)
ADF (automatic document feeder)	Up to 35 pages (Staggered) [80 g/m^2]	

Document Size

Document Size (Single-sided)	ADF Width:	147.3 to 215.9 mm
	ADF Length:	147.3 to 356.0 mm
	Scanner Glass Width:	Max. 215.9 mm
	Scanner Glass Length:	Max. 297 mm

Print media

Paper Input	**Paper Tray**	
	■ Paper Type:	Plain paper, Thin paper or Recycled paper
	■ Paper Size:	Letter, A4, B5 (ISO/JIS), A5, A5 (Long Edge), B6 (ISO), A6, Executive, Legal and Folio
	■ Paper Weight:	60 to 105 g/m^2
	■ Maximum Paper Tray Capacity:	Up to 250 sheets of 80 g/m^2 Plain paper
	Multi-purpose tray (MP tray)	
	■ Paper Type:	Envelope, Env.Thin, Env.Thick, Labels [1], Glossy paper, Thin paper, Thick paper, Thicker paper, Recycled paper, Bond paper or Plain paper
	■ Paper Size:	Width: 69.8 to 216 mm Length: 116 to 406.4 mm
	■ Paper Weight:	60 to 163 g/m^2 [2]
	■ Maximum Paper Tray Capacity:	Up to 50 sheets of 80 g/m^2 Plain paper
	Paper Tray 2 (option)	
	■ Paper Type:	Plain paper, Thin paper or Recycled paper
	■ Paper Size:	Letter, A4, B5 (ISO/JIS), A5, B6 (ISO), Executive, Legal and Folio
	■ Paper Weight:	60 to 105 g/m^2
	■ Maximum Paper Tray Capacity:	Up to 500 sheets of 80 g/m^2 Plain paper
Paper Output	**Face-Down Output Tray**	Up to 150 sheets (face-down print delivery to the output paper tray)
	Face-Up Output Tray	One sheet (face-up print delivery to the Face-up output tray)

Duplex Printing	■ Manual Duplex:	Yes
	■ Automatic Duplex:	Yes
	■ Paper Size (Automatic Duplex):	A4
	■ Paper Weight (Automatic Duplex):	60 to 105 g/m^2
	■ Paper Type (Automatic Duplex):	Plain paper, Thin paper, Recycled paper or Glossy paper

[1] For labels, we recommend removing printed pages from the output paper tray immediately after they exit the machine to avoid the possibility of smudging.

[2] 60 to 105 g/m^2 for duplex print.

Copy

Colour/Black	Yes/Yes
Copy Width	Max. 210 mm
Multiple Copies	Stacks or Sorts up to 99 pages
Reduce/Enlarge	25% to 400% (in increments of 1%)
Resolution	Up to 1200 × 600 dpi
First Copy Out Time (Monochrome)	Less than 19 seconds (from the READY mode and standard tray)
First Copy Out Time (Colour)	Less than 21 seconds (from the READY mode and standard tray)

Scanner

Colour/Black	Yes/Yes
TWAIN Compliant	Yes (Windows® 2000 Professional/Windows® XP/ Windows® XP Professional x64 Edition/Windows Vista®/ Windows® 7)
	Mac OS X 10.4.11 – 10.6.x [1]
WIA Compliant	Yes (Windows® XP/Windows Vista®/Windows® 7)
Colour Depth	48 bit internal / 24 bit external colour
Resolution	Up to 19200 × 19200 dpi (interpolated) [2]
	Up to 1200 × 2400 dpi (optical) [2] (from Scanner Glass)
	Up to 1200 × 600 dpi (optical) [2] (from ADF)
Scanning Width	Max. 210 mm
Greyscale	256 levels

[1] For the latest driver updates for the Mac OS X you are using, visit us at http://solutions.brother.com/.

[2] Maximum 1200 × 1200 dpi scanning with the WIA driver in Windows® XP (resolution up to 19200 × 19200 dpi can be chosen by using the scanner utility)

Printer

Automatic 2-sided (Duplex) Print	Yes
Emulations	PCL6, BR-Script3 (PostScript® 3™)
Resolution	600 dpi × 600 dpi, 2400 dpi (2400 × 600) quality
Print Speed (Monochrome Duplex)	Up to 14 sides/minute (Up to 7 sheets/minute) (A4 size)
Print Speed (Colour Duplex)	Up to 14 sides/minute (Up to 7 sheets/minute) (A4 size)
Print Speed (Monochrome)	Up to 24 pages/minute (A4 size) [1]
Print Speed (Colour)	Up to 24 pages/minute (A4 size) [1]
First Print Out Time (Monochrome)	Less than 16 seconds (from the READY mode and standard tray)
First Print Out Time (Colour)	Less than 16 seconds (from the READY mode and standard tray)

[1] The print speed may change depending on the type of document you print.

Interfaces

USB	Use a USB 2.0 cable (Type A/B) that is no more than 2.0 meters long. [1] [2]
Ethernet [3]	Use an Ethernet UTP cable category 5 or greater.

[1] Your machine has a Hi-Speed USB 2.0 interface. The machine can also be connected to a computer that has a USB 1.1 interface.

[2] Third party USB ports are not supported.

[3] See *Network (LAN)* on page 134 and the Network User's Guide for detailed network specifications.

Computer requirements

Minimum System Requirements and Supported PC Software Functions								
Computer Platform & Operating System Version		**Processor Minimum Speed**	**Minimum RAM**	**Recommended RAM**	**Hard Disk Space to install**		**Supported PC Software Functions**	**Supported PC Interface [3]**
					For Drivers	**For Applications**		
Windows® Operating System [1]	Windows® 2000 Professional [4]	Intel® Pentium® II or equivalent	64 MB	256 MB	150 MB	500 MB	Printing, Scanning	USB, 10/100 Base Tx (Ethernet)
	Windows® XP Home [2 5] Windows® XP Professional [2 5]		128 MB					
	Windows® XP Professional x64 Edition [2 5]	64-bit (Intel®64 or AMD64) supported CPU	256 MB	512 MB				
	Windows Vista® [5]	Intel® Pentium® 4 or equivalent 64-bit (Intel®64 or AMD64) supported CPU	512 MB	1 GB	500 MB	1.2 GB		
	Windows® 7 [5]	Intel® Pentium® 4 or equivalent 64-bit (Intel®64 or AMD64) supported CPU	1 GB (32-bit) 2 GB (64-bit)	1 GB (32-bit) 2 GB (64-bit)	650 MB			

D

Minimum System Requirements and Supported PC Software Functions								
Computer Platform & Operating System Version		**Processor Minimum Speed**	**Minimum RAM**	**Recommended RAM**	**Hard Disk Space to install**		**Supported PC Software Functions**	**Supported PC Interface [3]**
					For Drivers	**For Applications**		
Windows® Operating System [1]	Windows Server® 2003 (print only via network)	Intel® Pentium® III or equivalent	256 MB	512 MB	50 MB	N/A	Printing	10/100 Base Tx (Ethernet)
	Windows Server® 2003 x64 Edition (print only via network)	64-bit (Intel®64 or AMD64) supported CPU						
	Windows Server® 2008 (print only via network)	Intel® Pentium® 4 or equivalent 64-bit (Intel®64 or AMD64) supported CPU	512 MB	2 GB				
	Windows Server® 2008 R2 (print only via network)	64-bit (Intel®64 or AMD64) supported CPU						
Macintosh Operating System	Mac OS X 10.4.11 10.5.x	PowerPC G4/G5 Intel® Core™ Processor	512 MB	1 GB	80 MB	400 MB	Printing, Scanning	USB, 10/100 Base Tx (Ethernet)
	Mac OS X 10.6.x	Intel® Core™ Processor	1 GB	2 GB				

1 Internet Explorer® 6.0 or greater.

2 For WIA, 1200 x 1200 resolution. Brother Scanner Utility enables to enhance up to 19200 x 19200 dpi.

3 Third party USB ports are not supported.

4 PaperPort™ 11SE supports Microsoft® SP4 or higher for Windows® 2000.

5 PaperPort™ 12SE supports Microsoft® SP3 or higher for Windows® XP and SP2 or higher for Windows Vista® and Windows® 7.

For the latest driver updates, visit http://solutions.brother.com/.

All trademarks, brand and product names are property of their respective companies.

Consumable items

Toner Cartridge Life	Starter Toner Cartridge:	
	Black	Approx. 2,500 pages (A4) [1]
	Cyan, Magenta, Yellow	Approx. 1,500 pages (A4) [1]
	Standard Toner Cartridge:	
	TN-320BK (Black):	Approx. 2,500 pages (A4) [1]
	TN-320C (Cyan):	Approx. 1,500 pages (A4) [1]
	TN-320M (Magenta):	Approx. 1,500 pages (A4) [1]
	TN-320Y (Yellow):	Approx. 1,500 pages (A4) [1]
	High Capacity Toner Cartridge:	
	TN-325BK (Black):	Approx. 4,000 pages (A4) [1]
	TN-325C (Cyan):	Approx. 3,500 pages (A4) [1]
	TN-325M (Magenta):	Approx. 3,500 pages (A4) [1]
	TN-325Y (Yellow):	Approx. 3,500 pages (A4) [1]
Drum Unit	DR-320CL	Approx. 25,000 pages (A4) [2]
Belt Unit	BU-300CL	Approx. 50,000 pages (A4)
Waste Toner Box	WT-300CL	Approx. 50,000 pages (A4)

[1] Approx. cartridge yield is declared in accordance with ISO/IEC 19798.

[2] Drum yield is approximate, and may vary by type of use.

Network (LAN)

Note

For details about the full Network specifications, see *Network User's Guide*.

LAN	You can connect your machine to a network for Network Printing and Network Scanning [1]. Also included is Brother BRAdmin Light [2] Network Management software.
Wired Network Security	APOP, POP before SMTP, SMTP-AUTH, SSL/TLS (IPPS, HTTPS, SMTP, POP), SNMP v3, 802.1x (EAP-MD5, EAP-FAST, PEAP, EAP-TLS, EAP-TTLS), Kerberos

[1] See *Computer requirements* on page 131.

[2] BRAdmin Professional and Web BRAdmin are available as a download from http://solutions.brother.com/.

E Index

A

ADF (automatic document feeder)
  using 25
Apple Macintosh
  See Software User's Guide.

B

Belt unit
  replacing 48

C

Cleaning
  corona wires 66
  drum unit 70
  laser scanner windows 62
  scanner 61
Consumable items 31, 32, 33
Control panel overview 6
ControlCenter2 (for Macintosh)
  See Software User's Guide.
ControlCenter4 (for Windows®)
  See Software User's Guide.
Copy
  keys 6

D

Document
  how to load 25, 26
Drum unit
  cleaning 66, 70
  replacing 41

E

Envelopes 14, 20, 21, 23
Error messages on LCD 80
  Init Unable XX 82
  No Paper 83
  Out of Memory 83
  Print Unable XX 83
  Scan Unable XX 84

F

Folio 18, 21

G

Greyscale 128

H

HELP
  LCD messages 109
  Menu Table 110

L

Labels 12, 20, 21, 24
LCD (liquid crystal display) 6, 109

M

Machine information
  how to reset the machine 108
  reset functions 108
  serial number 108
  status LED 8
Macintosh
  See Software User's Guide.
Maintenance, routine 60
  replacing
    belt unit 48
    drum unit 41
    toner cartridge 35
    waste toner box 53
Menu Table 110
Mode, entering
  copy 27
  scan 7

N

Network
  printing
    See Network User's Guide.
  scanning
    See Software User's Guide.

O

Out of Memory message 83

P

Paper 20, 125
  how to load 10
    in multi-purpose tray 12
    in paper tray 10
  recommended 20, 21
  size 18, 20
  tray capacity 21
  type 18, 20
PaperPort™ 12SE with OCR
  See Software User's Guide and Help in the PaperPort™ 12SE application to access How-to-Guides.
Presto! PageManager
  See Software User's Guide. See also Help in the Presto! PageManager application.
Print
  difficulties 97
  drivers 129
  quality 99, 101
  resolution 129
  specifications 129
Printing
  See Software User's Guide.
Programming your machine 109

Q

Quality
  printing 99, 101

R

Replacing
  belt unit 48
  drum unit 41
  toner cartridge 35
  waste toner box 53
Resolution
  copy 127
  print 129
  scan 128

S

Scanner glass
  using 26
Scanning
  See Software User's Guide.
Secure key 7
Serial number
  how to find
    See inside front cover
Status LED 8

T

Text, entering 120
Toner cartridge
  replacing 35
Troubleshooting 97
  document jam 86, 87
  error messages on LCD 80
  if you are having difficulty
    copy quality 97
    network 100
    paper handling 99
    print quality 99, 101
    printing 97
    scanning 98
    software 98
  maintenance messages on LCD 80
  paper jam 88, 89, 90, 92, 96

V

Volume, setting
  beeper 9

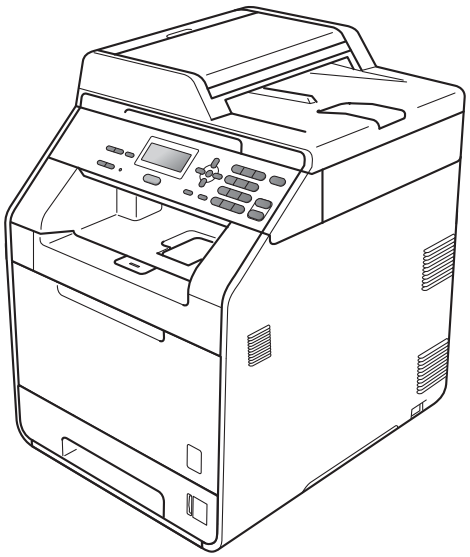
W

Waste toner box
  replacing 53
Windows®
  See Software User's Guide.

The machine is approved for use in the country of purchase only, local Brother companies or their dealers will only support machines purchased in their own countries.

ADVANCED USER'S GUIDE

DCP-9055CDN



Not all models are available in all countries.

Version 0

UK/IRE

User's Guides and where do I find it?

Which manual?	What's in it?	Where is it?
Safety and Legal	Please read the Safety Instructions before you set up your machine.	Printed / In the box
Quick Setup Guide	Read this Guide first. Follow the instructions for setting up your machine and installing the drivers and software for the operating system and connection type you are using.	Printed / In the box
Basic User's Guide	Learn the basic Copy and Scan operations and how to replace consumables. See troubleshooting tips.	PDF file / Documentation CD-ROM / In the box
Advanced User's Guide	Learn more advanced operations: Copy, security features and performing routine maintenance.	PDF file / Documentation CD-ROM / In the box
Software User's Guide	Follow these instructions for Printing, Scanning, Network Scanning and using the Brother ControlCenter utility.	PDF file / Documentation CD-ROM / In the box
Network Glossary	This Guide provides basic information about advanced network features of Brother machines along with general networking and common terms.	PDF file / Documentation CD-ROM / In the box
Network User's Guide	This Guide provides useful information of wired network settings and security settings using Brother machine. You can also find supported protocol information for your machine and the detailed troubleshooting tips.	PDF file / Documentation CD-ROM / In the box

Table of Contents

1 General Setup 1

Memory storage 1
Automatic daylight savings time 1
Ecology features 2
Toner Save 2
Sleep Mode 2
Deep Sleep mode 2
LCD Contrast 3
User Settings List 3
Network Configuration List 4

2 Security features 5

Secure Function Lock 2.0 5
Setting the password for the administrator 5
Changing the password for the administrator 6
Setting up the public user mode 6
Setting up restricted users 7
Turning Secure Function Lock on/off 7
Switching Users 8

3 Making copies 9

Copy settings 9
Stop copying 9
Enlarging or reducing the image copied 9
Using the Options key 11
Sorting copies using the ADF 12
Improving copy quality 12
Adjusting Contrast, Colour and Brightness 13
Making N in 1 copies (page layout) 14
2 in 1 ID Copy 15
Tray selection 16
Duplex (2-sided) copying 16
Duplex Copy (long edge flip) 16
Advanced Duplex Copy (short edge flip) 17

A Routine maintenance 18

Cleaning and checking the machine 18
Checking the Page Counters 18
Checking the remaining life of parts 18
Replacing periodic maintenance parts 19
Packing and shipping the machine 20

B Options 28

Optional paper tray (LT-300CL) 28
Memory board 28
SO-DIMM Types 28
Installing extra memory 29

C Glossary 31

D Index 32

1 General Setup

Memory storage

Your menu settings are stored permanently, and in the event of a power failure will *not* be lost. Temporary settings (for example, Contrast) *will* be lost. Also, during a power failure the machine will retain the date and time for up to 60 hours.

Automatic daylight savings time

You can set the machine to change automatically for Daylight Savings Time. It will set itself forward one hour in the Spring, and back one hour in the Autumn.

1. Press **Menu**, **5**, **1**, **2**.
2. Press ▲ or ▼ to choose `On` or `Off`. Press **OK**.
3. Press **Stop/Exit**.

Ecology features

Toner Save

You can save toner using this feature. When you set Toner Save to `On`, prints appear lighter. The default setting is `Off`.

1. Press **Menu**, **1**, **3**, **1**.
2. Press ▲ or ▼ to choose `On` or `Off`. Press **OK**.
3. Press **Stop/Exit**.

Note

We do not recommend Toner Save for printing Photo or Greyscale images.

Sleep Mode

The Sleep Mode Setting can reduce power consumption.

When the machine is in Sleep Mode (Power Save mode) it acts as though it were turned off. Receiving data wakes up the machine from Sleep mode to Ready mode.

You can choose how long the machine must be idle before it goes into sleep mode. When the machine receives computer data or makes a copy, the timer will be reset. The default setting is 3 minutes.

While the machine is in Sleep mode the LCD will show `Sleep`.

1. Press **Menu**, **1**, **3**, **2**.
2. Enter the length of time the machine is idle before entering Sleep mode. Press **OK**.
3. Press **Stop/Exit**.

Deep Sleep mode

If the machine is in Sleep mode and does not receive any jobs for a certain length of time, the machine will go into Deep Sleep mode automatically and the LCD will show `Deep Sleep`. Deep Sleep mode reduces more power consumption than Sleep mode. The machine will wake up and start warming up, when the machine receives a computer data or makes a copy.

LCD Contrast

You can change the contrast to make the LCD look lighter or darker.

1. Press **Menu**, **1**, **5**.
2. Press ▶ to make the LCD darker.
   Or, press ◀ to make the LCD lighter.
   Press **OK**.
3. Press **Stop/Exit**.

User Settings List

You can print a list of the settings you programmed.

1. Press **Menu**, **5**, **4**.
2. Press **Mono Start** or **Colour Start**.
3. Press **Stop/Exit**.

Network Configuration List

The Network Configuration List is a report listing the current network configuration including the network print server settings.

Note

Node name: Node name appears in the Network Configuration List. The default node name is “BRNXXXXXXXXXXXX”.

1. Press **Menu**, **5**, **5**.
2. Press **Mono Start** or **Colour Start**.
3. Press **Stop/Exit**.

2 Security features

Secure Function Lock 2.0

Secure Function Lock lets you restrict Public access to the following machine functions:

- Copy
- Scan
- PC Print
- Colour Print

This feature also prevents users from changing the Default settings of the machine by limiting access to the Menu settings.

Before using the security features you must first enter an administrator password.

Access to restricted operations can be enabled by creating a restricted user. Restricted users must enter a user password to use the machine.

Make a careful note of your password. If you forget it, you will have to reset the password stored in the machine. For information about how to reset the password call your Brother dealer for service.

Note

- Secure Function Lock can be set manually at the control panel or by using Web Based Management. We recommend using Web Based Management to configure this feature. For more information, see the *Network User's Guide*.
- Only administrators can set limitations and make changes for each user.

Setting the password for the administrator

The password you set in these steps is for the administrator. This password is used to set up users and to turn Secure Function Lock on or off. (See *Setting up restricted users* on page 7 and *Turning Secure Function Lock on/off* on page 7.)

1. Press **Menu**, **1**, **6**.
2. Enter a four-digit number for the password using numbers 0-9.
   Press **OK**.
3. Re-enter the password when the LCD shows `Verify:`.
   Press **OK**.
4. Press **Stop/Exit**.

Changing the password for the administrator

1. Press **Menu**, **1**, **6**.
2. Press ▲ or ▼ to choose `Set Password`.
   Press **OK**.
3. Enter the registered four-digit password.
   Press **OK**.
4. Enter a four-digit number for the new password.
   Press **OK**.
5. If the LCD shows `Verify:` re-enter the new password.
   Press **OK**.
6. Press **Stop/Exit**.

Setting up the public user mode

Public user mode restricts the functions that are available for Public users. Public users do not need to enter a password to access the features made available through this setting. You can set up one Public user.

1. Press **Menu**, **1**, **6**.
2. Press ▲ or ▼ to choose `Setup ID`.
   Press **OK**.
3. Enter the administrator password.
   Press **OK**.
4. Press ▲ or ▼ to choose `Public`.
   Press **OK**.
5. Press ▲ or ▼ to choose `Enable` or `Disable` for `Copy`.
   Press **OK**.
   After you have set `Copy`, repeat this step for `Scan`, `PC Print` and `Color Print`. When the LCD shows `Exit`, press **OK**.
6. Press **Stop/Exit**.

Setting up restricted users

You can set up users with restrictions and a password for functions that are available to them. You can set up more advanced restrictions, such as by page count or PC user login name, through Web Based Management. (For more information, see the *Network User's Guide*.) You can set up to 25 restricted users with restrictions and a password.

1. Press **Menu**, **1**, **6**.
2. Press ▲ or ▼ to choose `Setup ID`.
   Press **OK**.
3. Enter the administrator password.
   Press **OK**.
4. Press ▲ or ▼ to choose `User01`.
   Press **OK**.
5. Use the numeric keys to enter the user name. (See *Entering text* in *Appendix C* of the *Basic User's Guide*.)
   Press **OK**.
6. Enter a four-digit password for the user.
   Press **OK**.
7. Press ▲ or ▼ to choose `Enable` or `Disable` for `Copy`.
   Press **OK**.
   After you have set `Copy`, repeat this step for `Scan`, `PC Print` and `Color Print`. When the LCD shows `Exit`, press **OK**.
8. Repeat steps ❹ to ❼ for entering each additional user and password.
9. Press **Stop/Exit**.

Note

You cannot use the same name as another user's name.

Turning Secure Function Lock on/off

If you enter the wrong password, the LCD will show `Wrong Password`. Re-enter the correct password.

Turning Secure Function Lock on

1. Press **Menu**, **1**, **6**.
2. Press ▲ or ▼ to choose `Lock Off→On`.
   Press **OK**.
3. Enter your four-digit administrator password.
   Press **OK**.

Turning Secure Function Lock off

1. Press **Menu**, **1**, **6**.
2. Press ▲ or ▼ to choose `Lock On→Off`.
   Press **OK**.
3. Enter your four-digit administrator password.
   Press **OK**.

Switching Users

This setting allows you to switch between registered restricted users or Public mode when Secure Function Lock is turned on.

Changing to the restricted user Mode

1. Hold down ◄ as you press **Secure**.
2. Press ▲ or ▼ to choose ID.
   Press **OK**.
3. Enter your four-digit password.
   Press **OK**.

Changing to the Public Mode

You can exit from the restricted user mode by pressing the following keys:

- **Clear** when you are in the copy mode.
- (**SCAN**) when you are in the scan mode.

Then LCD will ask you `Go to Public?`.

Press **1** to choose `1.Yes`.

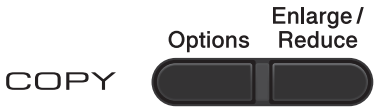
Note

- If the current ID is restricted to the function you want to use, `Access Denied` will appear on the LCD and then the machine will ask your name. If you are allowed to access the function you want to use, press ▲ or ▼ to choose your name and enter your four-digit password.
- If the function you want to use is restricted for all users, `Not Available` will appear on the LCD and then the machine will go back to the Ready mode. You cannot access to the function you want to use. Contact your administrator to check your Secure Function Lock Settings.
- If your ID has set a page limit restrictions and already reached the maximum number of pages, the LCD will show `Limit Exceeded` when you print data. Contact your administrator to check your Secure Function Lock Settings.
- If your ID has set Colour Print restrictions to `Disable`, the LCD will show `No Permission` when you print data. The machine prints the data black & white only.

3 Making copies

Copy settings

When you want to quickly change the copy settings temporarily for the next copy, use the temporary **COPY** keys. You can use different combinations.



The machine returns to its default settings one minute after copying.

To change a setting, press ▲ or ▼ and ◄ or ► to scroll through the COPY settings. When the setting you want is highlighted, press **OK**.

When you are finished choosing settings, press **Mono Start** or **Colour Start**.

Stop copying

To stop copying, press **Stop/Exit**.

Enlarging or reducing the image copied

You can choose the following enlargement or reduction ratios:

Press	
	100%*
	97% LTR→A4
	94% A4→LTR
	91% Full Page
	85% LTR→EXE
	83% LGL→A4
	78% LGL→LTR
	70% A4→A5
	50%
	Custom(25-400%)
	200%
	141% A5→A4
	104% EXE→LTR

* The factory setting is shown in Bold with an asterisk.

`Custom(25-400%)` allows you to enter a ratio from `25%` to `400%`.

To enlarge or reduce the next copy follow the instructions below:

1. Load your document.
2. Use the numeric keys to enter the number of copies (up to 99).
3. Press **Enlarge/Reduce**, then press ►.

4 Do one of the following:

- Press ▲ or ▼ to choose the enlargement or reduction ratio you want.

  Press **OK**.

- Press ▲ or ▼ to choose `Custom(25-400%)`.

  Press **OK**.

  Use the numeric keys to enter an enlargement or reduction ratio from `25%` to `400%`. (For example, press **5** **3** to enter `53%`.)

  Press **OK**.

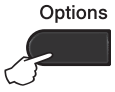
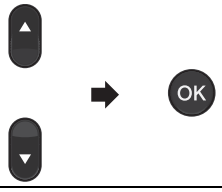
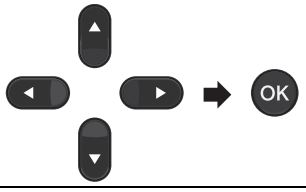
5 Press **Mono Start** or **Colour Start**.

Note

Page Layout Options 2 in 1 (P), 2 in 1 (L), 2 in 1 (ID), 4 in 1 (P) and 4 in 1 (L) are *not* available with Enlarge/Reduce.

Using the Options key

Use the **Options** key to quickly set the following copy settings temporarily for the next copy.

Press	Menu selections	Options	Page
Options 	Press ▲ or ▼, then press **OK** 	Press ▲, ▼, ◄ or ►, then press **OK** 	
	Stack/Sort (Appears when the document is in the ADF)	**Stack*** Sort	12
	Quality	**Auto*** Text Photo Graph	12
	Brightness	-■□□□□+ -□■□□□+ **-□□■□□+*** -□□□■□+ -□□□□■+	13
	Contrast	-■□□□□+ -□■□□□+ **-□□■□□+*** -□□□■□+ -□□□□■+	13
	Page Layout	Off(1 in 1) 2 in 1 (P) 2 in 1 (L) 2 in 1 (ID) 4 in 1 (P) 4 in 1 (L)	14
	Tray Select	**MP>T1*** or **M>T1>T2*** [1] T1>MP or T1>T2>M [1] #1(XXX) [2] #2(XXX) [1] [2] MP(XXX) [2]	16
The factory settings are shown in Bold with an asterisk.			

[1] T2 and #2 appears only if the optional lower tray is installed.

[2] XXX is the paper size you set in **Menu**, **1**, **1**, **2**.

Sorting copies using the ADF

You can sort multiple copies. Pages will be stacked in the order 1 2 3, 1 2 3, 1 2 3, and so on.

1. Load your document in the ADF.
2. Use the numeric keys to enter the number of copies (up to 99).
3. Press **Options**. Press ▲ or ▼ to choose `Stack/Sort`.
   Press **OK**.
4. Press ▲ or ▼ to choose `Sort`.
   Press **OK**.
5. Press **Mono Start** or **Colour Start**.

Improving copy quality

You can choose from a range of quality settings. The default setting is `Auto`.

- `Auto`

  Auto is the recommended mode for ordinary printouts. Suitable for documents that contain both text and photographs.

- `Text`

  Suitable for documents containing mainly text.

- `Photo`

  Better copy quality for photographs.

- `Graph`

  Suitable for copying receipts.

To *temporarily* change the quality setting, follow the steps below:

1. Load your document.
2. Use the numeric keys to enter the number of copies (up to 99).
3. Press **Options**.
   Press ▲ or ▼ to choose `Quality`.
   Press **OK**.
4. Press ◀ or ▶ to choose `Auto`, `Text`, `Photo` or `Graph`.
   Press **OK**.
5. Press **Mono Start** or **Colour Start**.

To change the *default* setting, follow the steps below:

1. Press **Menu**, **2**, **1**.
2. Press ▲ or ▼ to choose the copy quality.
   Press **OK**.
3. Press **Stop/Exit**.

Adjusting Contrast, Colour and Brightness

Contrast

Adjust the contrast to help an image look sharper and more vivid.

To *temporarily* change the contrast setting, follow the steps below:

1. Load your document.
2. Use the numeric keys to enter the number of copies (up to 99).
3. Press **Options**.
   Press ▲ or ▼ to choose `Contrast`.
   Press **OK**.
4. Press ◀ or ▶ to increase or decrease the contrast.
   Press **OK**.
5. Press **Mono Start** or **Colour Start**.

To change the *default* setting follow the steps below:

1. Press **Menu**, **2**, **3**.
2. Press ◀ or ▶ to increase or decrease the contrast.
   Press **OK**.
3. Press **Stop/Exit**.

Brightness

Adjust the copy brightness to make copies darker or lighter.

To *temporarily* change the copy brightness setting, follow the steps below:

1. Load your document.
2. Use the numeric keys to enter the number of copies (up to 99).
3. Press **Options**.
   Press ▲ or ▼ to choose `Brightness`.
   Press **OK**.
4. Press ◀ or ▶ to make a lighter copy or a darker copy.
   Press **OK**.
5. Press **Mono Start** or **Colour Start**.

To change the *default* setting follow the steps below:

1. Press **Menu**, **2**, **2**.
2. Press ◀ or ▶ to make a lighter copy or a darker copy.
   Press **OK**.
3. Press **Stop/Exit**.

Colour Adjust (Saturation)

You can change the default setting for colour saturation.

To change the *default* setting follow the steps below:

1. Press **Menu**, **2**, **4**.
2. Press ▲ or ▼ to choose `1.Red`, `2.Green`, or `3.Blue`.
   Press **OK**.
3. Press ◀ or ▶ to increase or decrease the colour saturation.
   Press **OK**.
4. Return to step ❷ to choose the next colour. Or press **Stop/Exit**.

Making N in 1 copies (page layout)

You can reduce the amount of paper used when copying by using the N in 1 copy feature. This allows you to copy two or four pages onto one page. If you want to copy both sides of an ID card onto one page, see *2 in 1 ID Copy* on page 15.

IMPORTANT

- Please make sure the paper size is set to `Letter`, `A4`, `Legal` or `Folio`.
- (`P`) means Portrait and (`L`) means Landscape.
- You cannot use the Enlarge/Reduce setting with the N in 1 feature.

1. Load your document.
2. Use the numeric keys to enter the number of copies (up to 99).
3. Press **Options**. Press ▲ or ▼ to choose `Page Layout`. Press **OK**.
4. Press ▲ or ▼ to choose `Off(1 in 1)`, `2 in 1 (P)`, `2 in 1 (L)`, `2 in 1 (ID)` [1], `4 in 1 (P)` or `4 in 1 (L)`.
   Press **OK**.

   [1] For details about `2 in 1 (ID)`, see *2 in 1 ID Copy* on page 15
5. Press **Mono Start** or **Colour Start** to scan the page.
   If you placed the document in the ADF, the machine scans the pages and starts printing.
   If you are using the scanner glass, go to step ❻.
6. After the machine scans the page, press **1** to scan the next page.

```
Flatbed Copy:
 Next Page?
▲ 1.Yes
▼ 2.No
Select ▲▼ or OK
```

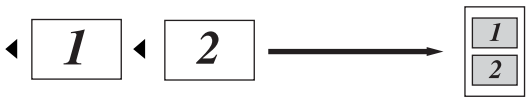
7. Put the next page on the scanner glass. Press **OK**.
   Repeat steps ❻ and ❼ for each page of the layout.
8. After all the pages have been scanned, press **2** in step ❻ to finish.

If you are copying from the ADF:

Insert your document face up in the direction shown below:

■ **2 in 1 (P)**

■ **2 in 1 (L)**



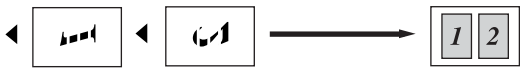
■ **4 in 1 (P)**

■ **4 in 1 (L)**

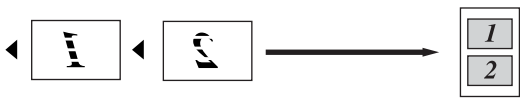
If you are copying from the scanner glass:

Insert your document face down in the direction shown below:

■ **2 in 1 (P)**



■ **2 in 1 (L)**



■ **4 in 1 (P)**

■ **4 in 1 (L)**

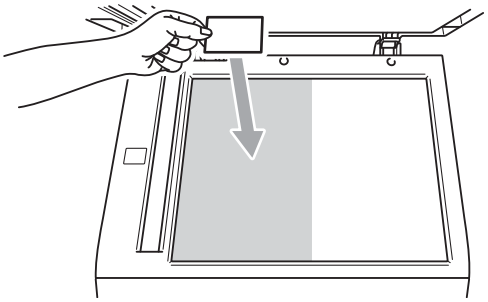
2 in 1 ID Copy

You can copy both sides of your identification card onto one page, keeping the original card size.

Note

You can copy an identification card to the extent permitted under applicable laws. See *Unlawful use of copying equipment* in the *Safety and Legal Booklet*.

1. Place your identification card face down on the left side of the scanner glass.



■ Even if a document is placed in the ADF, the machine scans the data from the scanner glass for 2 in 1 ID copy.

2. Press **Options**. Press ▲ or ▼ to choose `Page Layout`. Press **OK**.

3. Press ▲ or ▼ to choose `2 in 1 (ID)`. Press **OK**.

4. Press **Mono Start** or **Colour Start**. After the machine scans the first side of the card, the LCD will display the following instruction.

```
Turn over the ID
Then Press Start
```

5. Turn over your identification card and place it at the left side of the scanner glass.

6 Press **Mono Start** or **Colour Start**. The machine scans the other side of the card and prints the page.

Note

When 2 in 1 ID Copy is chosen, the machine sets the quality to `Photo` and the contrast to +2 (`-□□□□■+.`)

Tray selection

You can change the Tray Use only for the next copy.

1 Load your document.

2 Use the numeric keys to enter the number of copies (up to 99).

3 Press **Options**. Press ▲ or ▼ to choose `Tray Select`. Press **OK**.

4 Press ◀ or ▶ to choose the `MP>T1`, `M>T1>T2` [1], `T1>MP`, `T1>T2>M` [1], `#1(XXX)` [2], `#2(XXX)` [1 2] or `MP(XXX)` [2].

[1] T2 and #2 appears only if the optional lower tray is installed.

[2] XXX is the paper size you set in **Menu**, **1**, **1**, **2**.

5 Press **Mono Start** or **Colour Start**.

Note

To change the default setting for Tray Select, see *Tray Use in copy mode* in *Chapter 2* of the *Basic User's Guide*.

Duplex (2-sided) copying

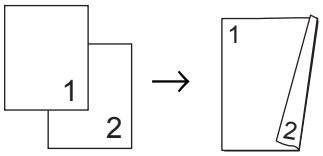
If you want to use the automatic duplex copy feature, load your document in the ADF.

If you get an Out of Memory message while you are making duplex copies, try installing extra memory. (See *Installing extra memory* on page 29.)

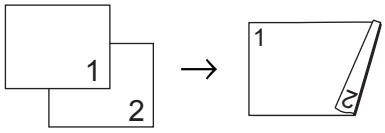
Duplex Copy (long edge flip)

■ **1 sided → 2 sided L**

Portrait



Landscape



1 Load your document.

2 Enter the number of copies (up to 99) using the numeric keys.

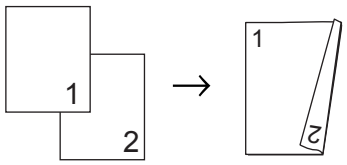
3 Press **Duplex** and ▲ or ▼ to select `1sided→2sided L`. Press **OK**.

4 Press **Mono Start** or **Colour Start** to copy the document.

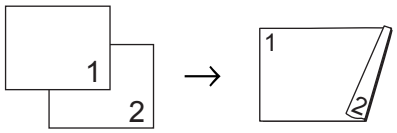
Advanced Duplex Copy (short edge flip)

■ **1 sided → 2 sided S**

Portrait



Landscape



1. Load your document.
2. Enter the number of copies (up to 99) using the numeric keys.
3. Press **Duplex** and ▲ or ▼ to select `1sided→2sided S`.
   Press **OK**.
4. Press **Mono Start** or **Colour Start** to copy the document.

A Routine maintenance

Cleaning and checking the machine

Clean the outside and inside of the machine regularly with a dry, lint-free cloth. When you replace the toner cartridge or the drum unit, make sure that you clean the inside of the machine. If printed pages are stained with toner, clean the inside of the machine with a dry, lint-free cloth.

WARNING

DO NOT use cleaning materials that contain ammonia, alcohol, any type of spray, or any type of flammable substance to clean the outside or inside of the machine. Doing this may cause a fire or electrical shock.
See *To use the product safely* in the *Safety and Legal Booklet* for how to clean the machine.

Be careful not to inhale toner.

IMPORTANT

Use neutral detergents. Cleaning with volatile liquids such as thinner or benzine will damage the surface of the machine.

Checking the Page Counters

You can see the machine's Page Counters for copies, printed pages, reports and lists or a summary total.

1. Press **Menu**, **5**, **3**.
2. Press ▲ or ▼ to see `Total`, `List`, `Copy` or `Print`.
3. Press **Stop/Exit**.

Checking the remaining life of parts

You can see the machine's parts life on the LCD.

1. Press **Menu**, **5**, **7**.

```
57.Parts Life
  1.Drum
  2.Belt Unit
  3.Fuser
Select ▲▼ or OK
```

2. Press ▲ or ▼ to choose `1.Drum`, `2.Belt Unit`, `3.Fuser`, `4.Laser`, `5.PF Kit MP`, `6.PF Kit 1` or `7.PF Kit 2`.
   Press **OK**.
3. Press **Stop/Exit**.

Replacing periodic maintenance parts

The periodic maintenance parts will need to be replaced regularly to maintain the print quality. The parts listed below will have to be replaced after printing approximately 50,000 pages [1] for PF KitMP and 100,000 pages [1] for PF Kit 1, PF Kit 2, Fuser and Laser. Please call your Brother dealer when the following messages appear on the LCD.

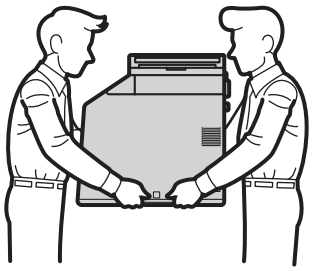
[1] A4 or Letter size single-sided pages.

LCD message	Description
`Replace Parts Fuser Unit`	Replace the fuser unit.
`Replace Parts Laser Unit`	Replace the laser unit.
`Replace Parts PF Kit 1`	Replace the paper feeding kit for the paper tray.
`Replace Parts PF Kit 2`	Replace the paper feeding kit for the lower tray (option).
`Replace Parts PF Kit MP`	Replace the paper feeding kit for the multi-purpose tray.

Packing and shipping the machine

WARNING

This machine is heavy and weighs approximately 26.5 kg. To prevent possible injuries at least two people should lift the machine. Be careful not to pinch your fingers when you put the machine down.



If you use a Lower Tray, carry it separately from your machine.

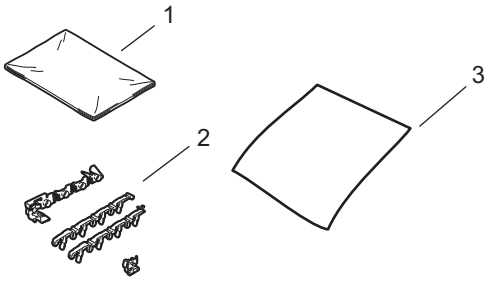
IMPORTANT

When shipping the machine, the waste toner box must be removed from the machine and put in a plastic bag, and then sealed. Failure to remove it and put it in a plastic bag before shipping may cause severe damage to the machine and may void the warranty.

Note

If for any reason you must ship your machine, carefully repack the machine in the original packaging to avoid any damage during transit. The machine should be adequately insured with the carrier.

Make sure that you have the following parts for repacking:



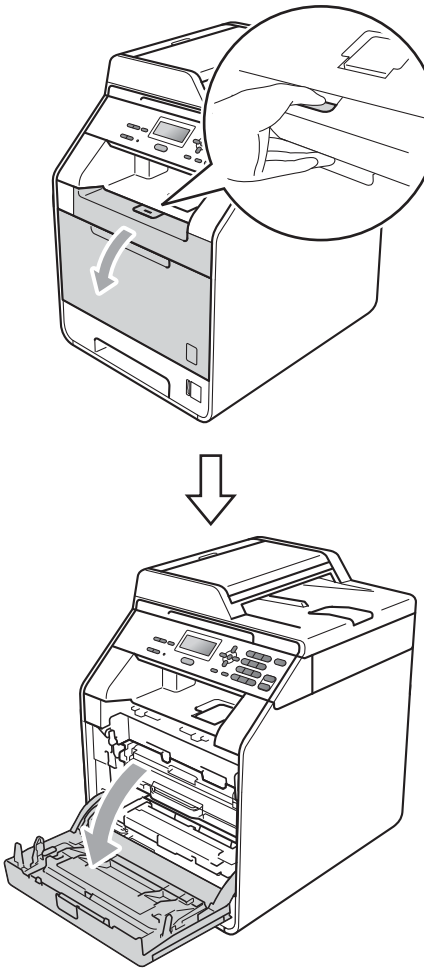
1 Plastic bag for the waste toner box

2 Orange packing materials for locking the internal parts (4 pieces)

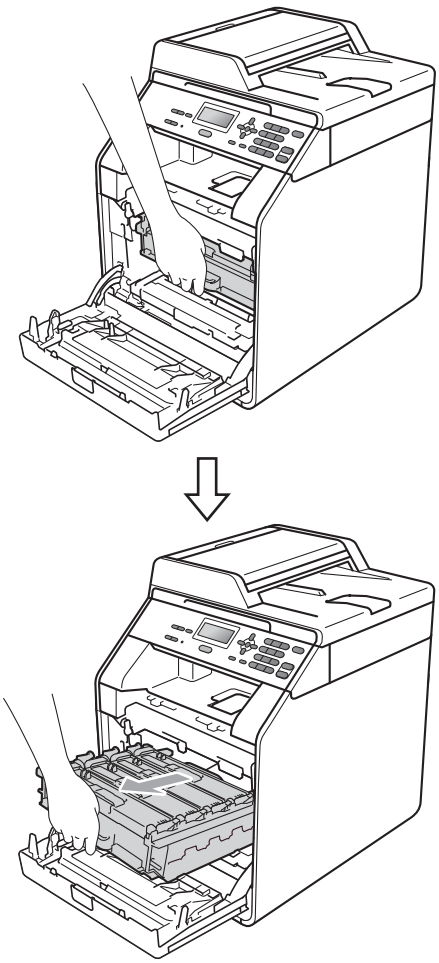
3 A piece of paper (A4 or Letter) to protect the belt unit (Please supply this yourself)

1. Turn off the machine. Disconnect all cables, and then unplug the power cord from the electrical socket.

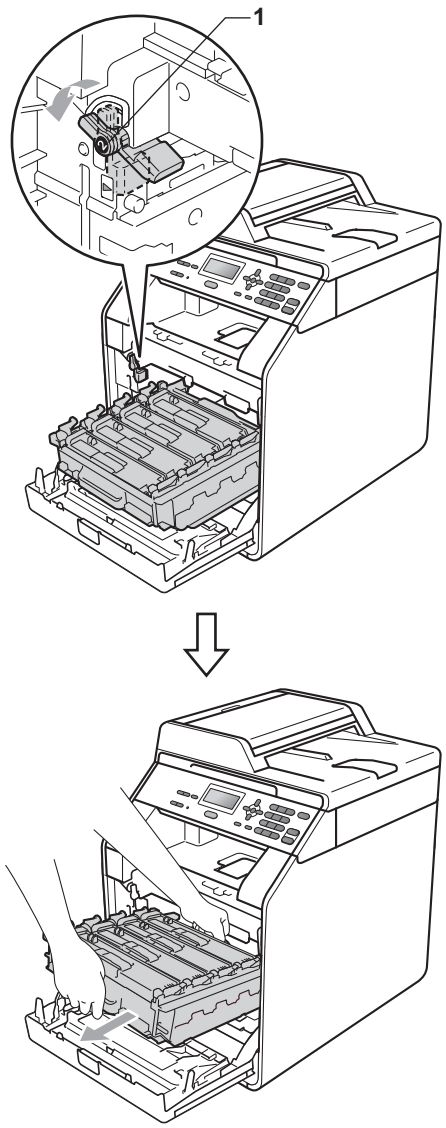
2. Press the front cover release button and then open the front cover.



3. Hold the green handle of the drum unit. Pull the drum unit out until it stops.

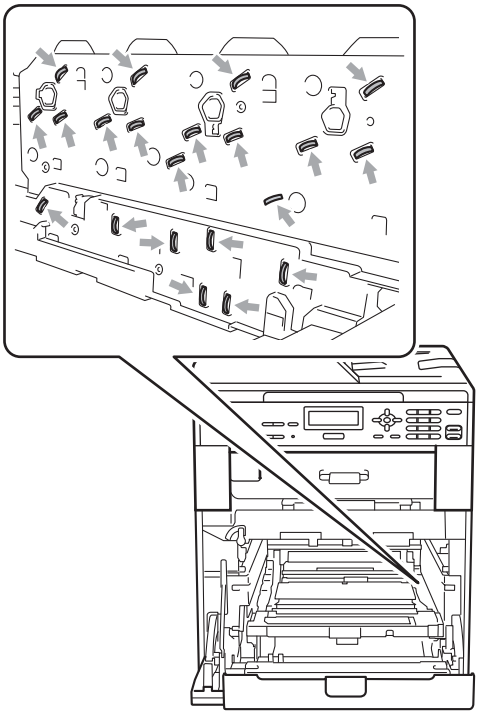


4 Turn the green lock lever (1) at the left of the machine anticlockwise to the release position. Holding the green handles of the drum unit, lift the front of the drum unit and remove it from the machine.

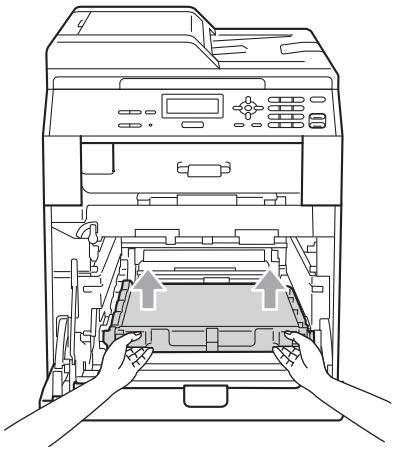


IMPORTANT

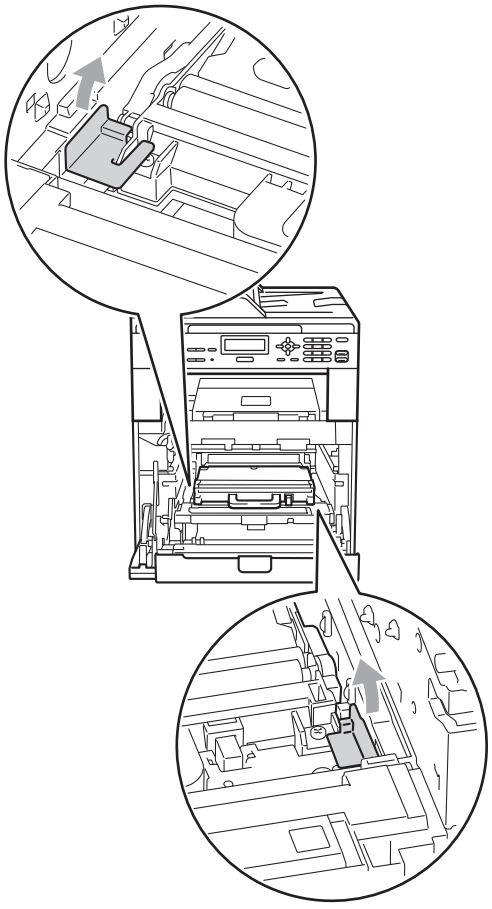
- Hold the green handles of the drum unit when you carry it. DO NOT hold the sides of the drum unit.
- We recommend that you place the drum unit on a clean, flat surface with a piece of disposable paper underneath it in case you accidentally spill or scatter toner.
- Handle the toner cartridge and the waste toner box carefully. If toner scatters on your hands or clothes, wipe or wash it off with cold water at once.
- To prevent damage to the machine from static electricity, DO NOT touch the electrodes shown in the illustration.



5 Hold the green handle of the belt unit with both hands and lift the belt unit up, then pull it out.



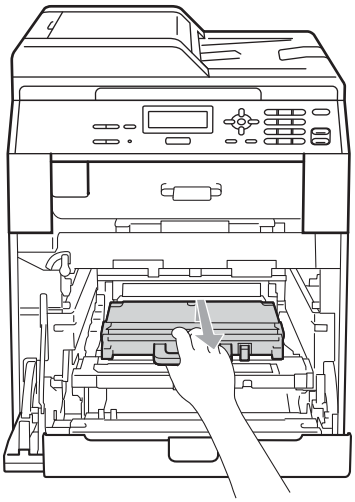
6 Remove two pieces of orange packing material and discard them.



Note

This step is only necessary when you are replacing the waste toner box for the first time, and is not required for the replacement waste toner box. The orange packing pieces are installed at the factory to protect your machine during shipment.

7 Remove the waste toner box from the machine using the green handle, and then put it in a plastic bag and seal the bag completely.

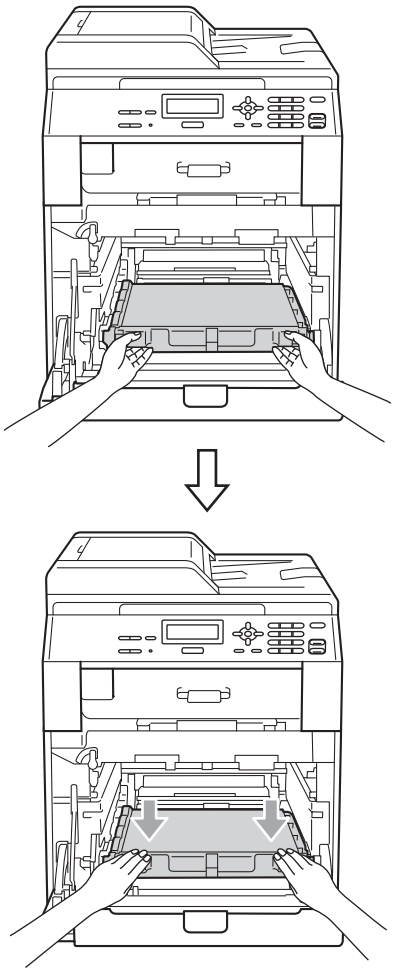


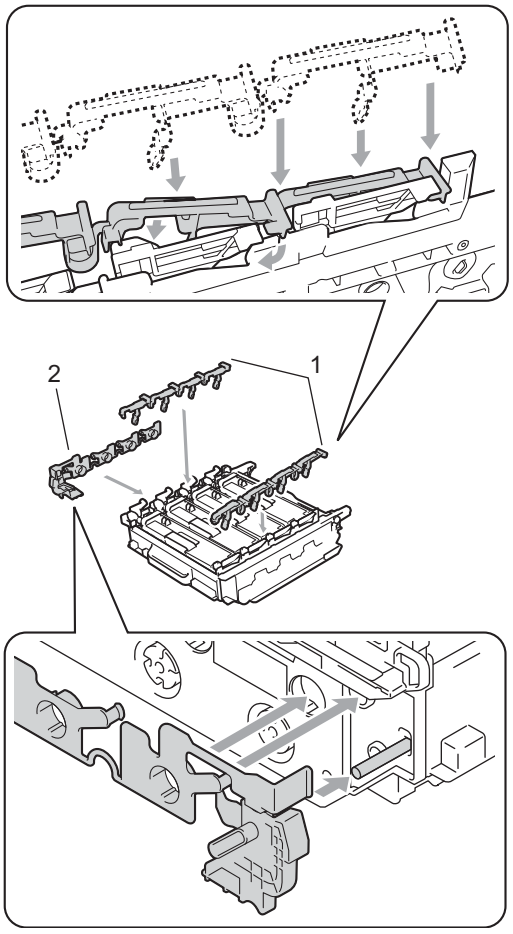
IMPORTANT

Handle the waste toner box carefully. If toner scatters on your hands or clothes, wipe or wash it off with cold water at once.

A

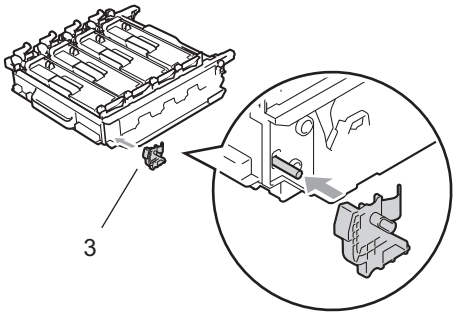
8 Put the belt unit back into the machine. Make sure the belt unit is level and fits firmly into place.



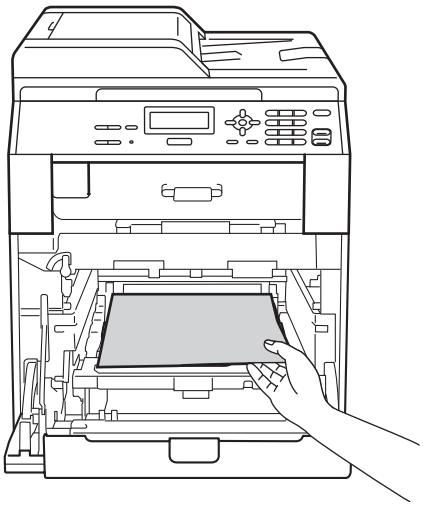


9 Install orange packing materials to the drum unit as follows:

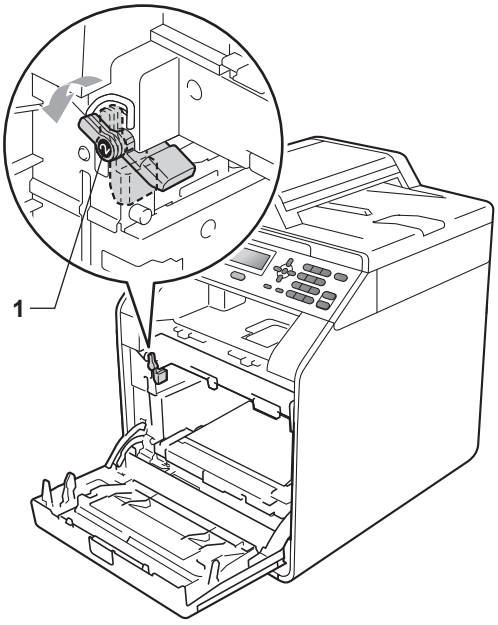
- Install one orange packing material (1) to secure the toner cartridges to the drum unit on the left and right sides respectively.
- Install one orange packing material (2) to the drum's side surface on the left side only, as viewed from the front.
- Install one orange packing material (3) to the drum's side protruding section on the right side.



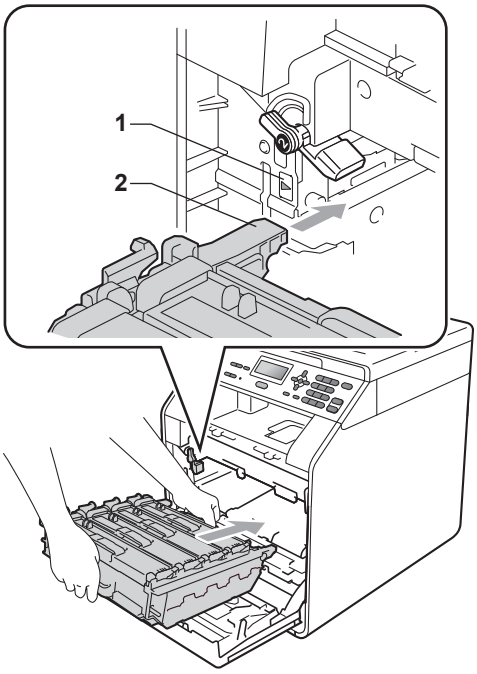
10 Put a piece of paper (A4 or Letter) on the belt unit to prevent damage to the belt unit.



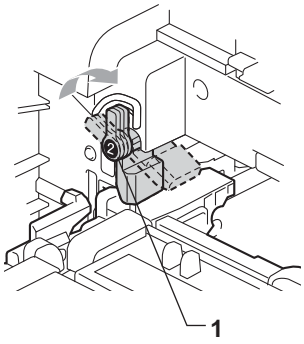
11 Make sure the green lock lever (1) is in the release position as shown in the illustration.



12 Match the guide ends (2) of the drum unit to the ▶ marks (1) on both sides of the machine, then gently slide the drum unit into the machine until it stops at the green lock lever.

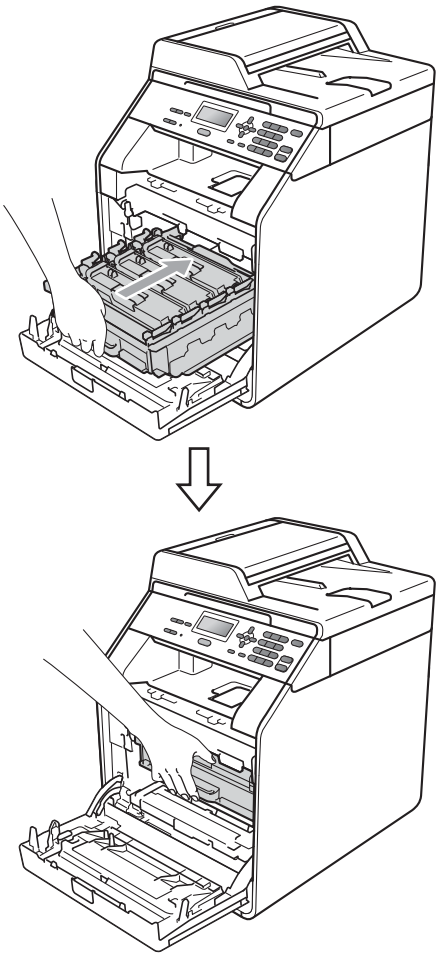


13 Turn the green lock lever (1) clockwise to the lock position.



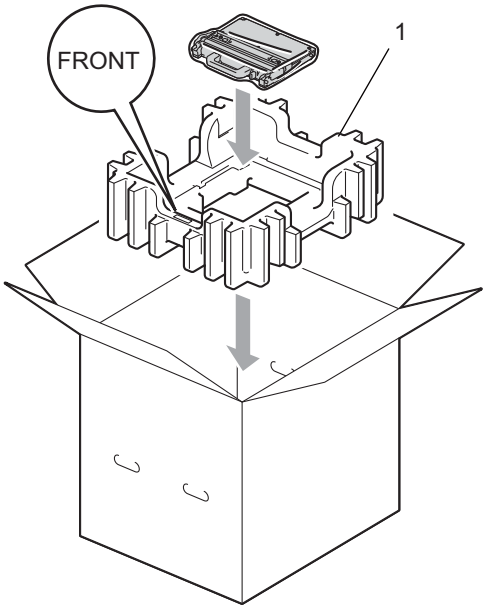
A

14 Push the drum unit in until it stops.

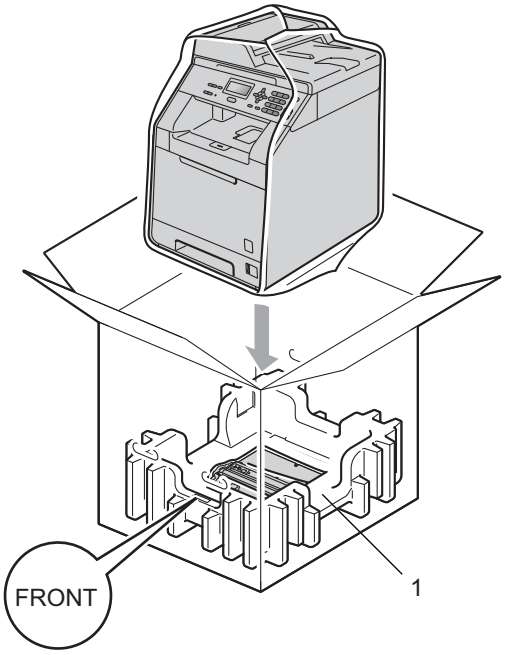


15 Close the front cover of the machine.

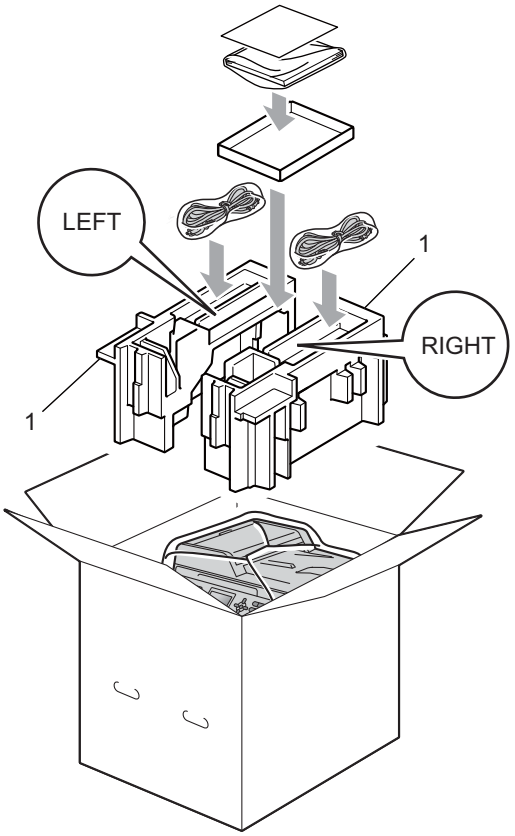
16 Put the Styrofoam piece (1) into the carton. Then put the waste toner box in the Styrofoam piece.



17 Wrap the machine with a plastic bag. Put the machine on the Styrofoam piece (1).



18 Put the two styrofoam pieces (1) into the carton matching the right of the machine to the "RIGHT" mark on one of the styrofoam pieces, and the left of the machine to the "LEFT" mark on the other styrofoam piece. Put the AC power cord and printed materials in the original carton as shown in the illustration.



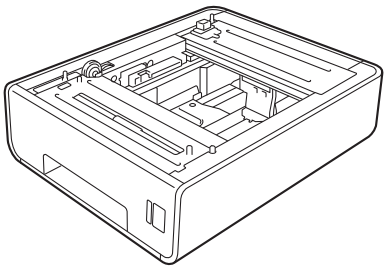
19 Close the carton and tape it shut.

B Options

Optional paper tray (LT-300CL)

An optional lower tray can be installed, and it can hold up to 500 sheets of 80 g/m^2 paper.

When an optional tray is installed, the machine can hold up to 800 sheets of plain paper.



For setup, see the Instructions that we have supplied with the lower tray unit.

Memory board

DCP-9055CDN has 128 MB of standard memory. The machine has one slot for optional memory expansion. You can increase the memory up to maximum of 384 MB by installing one SO-DIMM (Small Outline Dual In-line Memory Module).

SO-DIMM Types

You can install the following SO-DIMMs:

- 128 MB Kingston KTH-LJ2015/128
- 256 MB Kingston KTH-LJ2015/256
- 128 MB Transcend TS128MHP422A
- 256 MB Transcend TS256MHP423A

Note

- For more information, visit the Kingston Technology website at http://www.kingston.com/.
- For more information, visit the Transcend website at http://www.transcend.com.tw/.

In general, the SO-DIMM must have the following specifications:

Type: 144-pin and 16-bit output

CAS latency: 4

Clock frequency: 267 MHz (533 Mb/S/Pin) or more

Capacity: 64, 128 or 256 MB

Height: 30.0 mm (1.18 in.)

DRAM type: DDR2 SDRAM

Note

- There might be some SO-DIMMs that will not work with the machine.
- For more information, call the dealer you bought the machine from or Brother Customer Service.

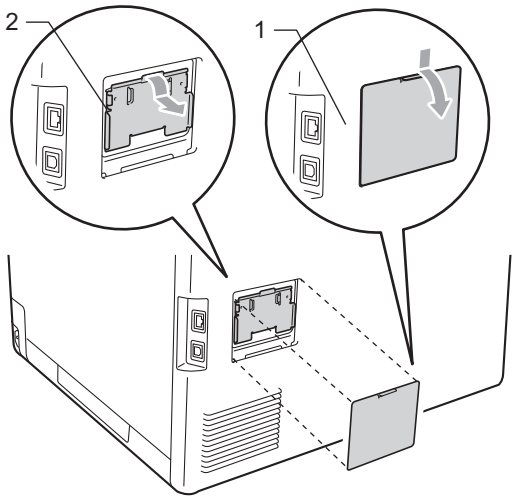
Installing extra memory

1. Turn off the machine.
2. Disconnect the interface cables from the machine, and then unplug the power cord from the electrical socket.

Note

Be sure to turn off the machine's power switch before you install or remove the SO-DIMM.

3. Remove the plastic (1) and then metal (2) SO-DIMM covers.

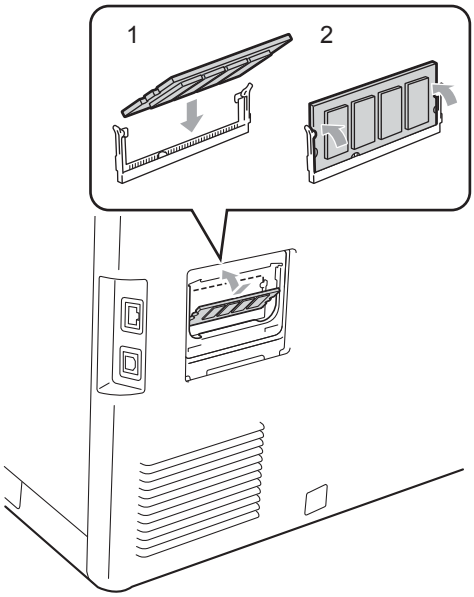


4. Unpack the SO-DIMM and hold it by its edges.

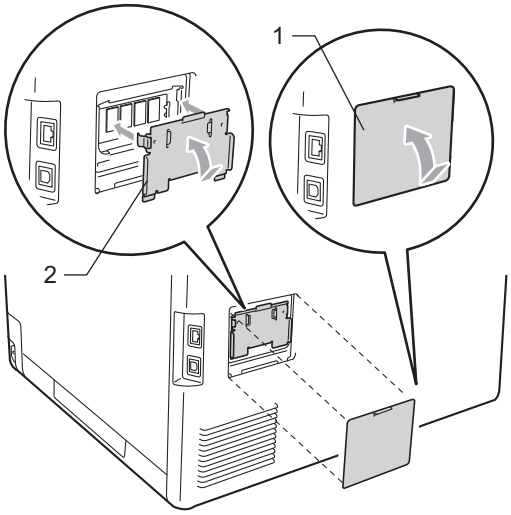
IMPORTANT

To prevent damage to the machine from static electricity, DO NOT touch the memory chips or the board surface.

5. Hold the SO-DIMM by the edges and align the notches in the SO-DIMM with the protrusions in the slot. Insert the SO-DIMM diagonally (1), then tilt it toward the interface board until it clicks into place (2).



6. Put the metal (2) and then the plastic (1) SO-DIMM covers back on.



B

7 Plug the machine's power cord back into the electrical socket first, and then connect the interface cables.

8 Turn on the machine's power switch.

Note

To make sure that you have installed the SO-DIMM properly, you can print the user settings page that shows the current memory size. (See *User Settings List* on page 3.)

C Glossary

This is a comprehensive list of features and terms that appear in Brother manuals. Availability of these features depends on the model you purchased.

ADF (automatic document feeder)
The document can be placed in the ADF and scanned one page at a time automatically.

Beeper Volume
Volume setting for the beep when you press a key or make an error.

Cancel Job
Cancels a programmed print job and clears the machine's memory.

Contrast
Setting to compensate for dark or light documents, by making copies of dark documents lighter and light documents darker.

Fine resolution
Resolution is 203 × 196 dpi. It is used for small print and graphs.

Greyscale
The shades of grey available for copying photographs.

Help List
A printout of the complete Menu table that you can use to program your machine when you do not have the User's Guides with you.

LCD (liquid crystal display)
The display screen on the machine that shows interactive messages during On-Screen Programming and shows the date and time when the machine is idle.

Menu mode
Programming mode for changing your machine's settings.

OCR (optical character recognition)
ScanSoft™ PaperPort™ 12SE with OCR or Presto! PageManager software application converts an image of text to text you can edit.

Resolution
The number of vertical and horizontal lines per inch.

Scanning
The process of sending an electronic image of a paper document into your computer.

Temporary settings
You can choose certain options for copy without changing the default settings.

User Settings List
A printed report that shows the current settings of the machine.

D Index

A

Apple Macintosh
See Software User's Guide.

C

ControlCenter2 (for Macintosh)
See Software User's Guide.
ControlCenter4 (for Windows®)
See Software User's Guide.
Copy
2 in 1 ID Copy 15
contrast 13
Enlarge/Reduce key 9
keys 9
N in 1 (page layout) 14
Options key 11
quality 12
sort (ADF only) 12
temporary settings 9
using ADF 12
using scanner glass 14

D

Deep sleep mode 2
Drum unit
checking (remaining life) 18
Duplex copy 16

E

Enlarge/Reduce key 9

L

LCD (liquid crystal display)
contrast 3

M

Machine information
checking remaining life of parts 18
page counts 18
Macintosh
See Software User's Guide.
Maintenance, routine 18
checking the remaining life of parts 18
Memory
adding DIMM (option) 28
installing 29
storage 1

N

N in 1 (page layout) 14
Network
printing
See Network User's Guide.
scanning
See Software User's Guide.

P

Page layout (N in 1) 14
PaperPort™ 12SE with OCR
See Software User's Guide and Help in the PaperPort™ 12SE application to access How-to-Guides.
Power failure 1
Presto! PageManager
See Software User's Guide. See also Help in the Presto! PageManager application.
Printing
See Software User's Guide.

Q

Quality
copying 11, 12

R

Reducing
copies 9
Restricted users 7

S

Scanning
See Software User's Guide.
Security
Secure function lock
administrator password 5
Public user mode 6
restricted users 7
Sleep mode 2
Sort 12

T

Temporary copy settings 9
Toner Save 2

W

Windows®
See Software User's Guide.

D

The machine is approved for use in the country of purchase only, local Brother companies or their dealers will only support machines purchased in their own countries.